

**NEW JERSEY INSTITUTE OF TECHNOLOGY**

Financial Statements and Federal Award Expenditures in Accordance  
with the Uniform Guidance and State of New Jersey Award  
Expenditures in Accordance with State of New Jersey Department of  
the Treasury Circular 15-08  
Together with  
Reports of Independent Certified Public Accountants

June 30, 2019

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## REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

To the Board of Trustees of  
**New Jersey Institute of Technology:**

### Report on the financial statements

We have audited the accompanying financial statements of the business-type activities of New Jersey Institute of Technology (the University), a component unit of the State of New Jersey, as of and for the years ended June 30, 2019 and 2018, and the related notes to the financial statements, which collectively comprise the University's basic financial statements as listed in the table of contents.

#### Management's responsibility for the financial statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditor's responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the University's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the business-type activities of the New Jersey Institute

of Technology as of June 30, 2019 and 2018, and the changes in its financial position and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Other matters**

##### *Required supplementary information*

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis included on pages 4 through 13 and the Schedules of Proportionate Share of the Net Pension Liability – Last 10 Years, the Schedules of Employer Contributions – Last 10 Years, and the Schedules of Proportionate Share of the Total Other Postemployment Benefits (OPEB) Liability – Last 10 Years, included on pages 50 through 52 be presented to supplement the basic financial statements. Such supplementary information, although not a required part of the basic financial statements, is required by the Governmental Accounting Standards Board, which considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. This required supplementary information is the responsibility of management. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America. These limited procedures consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the Management's Discussion and Analysis, the Schedules of Proportionate Share of the Net Pension Liability – Last 10 Years, the Schedules of Employer Contributions – Last 10 Years, and the Schedules of Proportionate Share of the Total Other Postemployment Benefits (OPEB) Liability – Last 10 Years because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

##### *Supplementary information*

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the University's basic financial statements. The accompanying Schedule of Expenditures of Federal Awards and Schedule of Expenditures of the State of New Jersey Awards for the year ended June 30, 2019, as required by Title 2 *U.S. Code of Federal Regulations (CFR) Part 200*, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance) and State of New Jersey Department of the Treasury Circular 15-08, *Single Audit Policy for Recipients of Federal Grants, State Grants, and State Aid*, respectively, are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such supplementary information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures. These additional procedures included comparing and reconciling the information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America.

In our opinion, the supplementary information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

**Other reporting required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report, dated December 20, 2019, on our consideration of the University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control over financial reporting and compliance.

*Grant Thornton LLP*

Iselin, New Jersey  
December 20, 2019

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**Introduction**

The following discussion and analysis provides an analytical overview of the financial position and activities of New Jersey Institute of Technology (NJIT), Foundation at New Jersey Institute of Technology (Foundation), New Jersey Innovation Institute, Inc. (NJII), and ten urban renewal limited liability companies (UREs) (collectively, the University) at and for the years ended June 30, 2019 and 2018. This discussion and analysis has been prepared by management and should be read in conjunction with the financial statements and the notes thereto, which follow this section.

Since its founding in 1881, NJIT has been transformed from a local technical school to one of America's top tier national research universities. While moving steadily to increasingly higher levels of excellence in educational performance, NJIT has become a research and development hub, participating in entrepreneurial development and building business partnerships through research and development initiatives. NJIT's designation as an R1 research university by Carnegie Classification places the University among the 131 most prolific research universities in the nation. NJIT has evolved into an international presence, both in the scope of its educational programs, including on-site and distance learning offerings, attraction of international students to its programs, and through the reach of its educational, scientific, and technological influence at international forums and in international research projects.

As New Jersey's science, technology and design university, NJIT has earned a solid reputation as one of the nation's preeminent STEM-based educational and research institutions. NJIT is a student-centered, urban research university, committed to the pursuit of excellence in undergraduate, graduate, and executive education and professional development programs, in the conduct of research, in contributing to the economic development of the State of New Jersey (the State), and in service to both its local communities and the broader society of the State and the nation. With enrollment of more than 11,400 undergraduate and graduate students, NJIT offers small-campus intimacy with the resources of a major public research university. NJIT offers over fifty undergraduate degree programs and over sixty-five graduate degree programs, including twenty programs leading to a Ph.D. degree in a professional discipline. NJIT also operates a small business incubator whose mission is to accelerate the successful development of entrepreneurial companies through an array of business support resources and services.

NJIT was formally recognized as a body corporate and politic by The New Jersey Institute of Technology Act of 1995. The Foundation is a separately incorporated 501(c)(3) tax-exempt resource development organization that encourages private philanthropy on behalf of NJIT. NJII is a separately incorporated 501(c)(3) tax-exempt charitable organization that applies the intellectual and technological resources of NJIT to challenges identified by industry partners. NJII includes the activities of Healthcare Innovation Solutions, Inc. (HCIS), a separately incorporated for-profit entity that provides consulting services to the healthcare industry. NJII is the sole shareholder of HCIS, which commenced operations on July 1, 2018. The UREs operate residential buildings for NJIT student Greek organizations.

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**The Financial Statements**

The University's financial statements include a statement of net position at June 30, 2019 and 2018, and statements of revenues, expenses, and changes in net position and of cash flows for the years then ended. The financial statements are prepared in accordance with U.S. generally accepted accounting principles as promulgated by the Governmental Accounting Standards Board (GASB).

**Financial Highlights**

The University's financial position at June 30, 2019 and 2018 was sound, with total assets of \$853,985 and \$851,899, deferred outflows of resources of \$36,956 and \$41,804, total liabilities of \$575,856 and \$590,054, and deferred inflows of resources of \$31,940 and \$23,818, respectively. Net position, which represents the excess of the University's assets and deferred outflows of resources over its liabilities and deferred inflows of resources, totaled \$283,145 and \$279,831 at June 30, 2019 and 2018, respectively. The University's net position increased \$3,314 in fiscal year 2019 and decreased \$466 in fiscal year 2018.

**Statement of Net Position**

The statement of net position presents the University's financial position at June 30, 2019 and 2018, and is summarized as follows. The summarized statement of net position at June 30, 2017, is also presented for comparative purposes.

	<b>June 30,</b>		
	<b>2019</b>	<b>2018</b>	<b>2017</b>
Current assets	\$ 178,965	\$ 168,981	\$ 138,768
Endowment investments	122,812	113,638	108,353
Capital assets, net	525,106	520,224	476,822
Other assets	27,102	49,056	126,533
Total assets	<u>853,985</u>	<u>851,899</u>	<u>850,476</u>
Deferred outflows of resources	<u>36,956</u>	<u>41,804</u>	<u>44,834</u>
Current liabilities	69,255	72,985	81,754
Long-term debt, noncurrent portion	342,203	346,723	352,058
Other liabilities	164,398	170,346	177,107
Total liabilities	<u>575,856</u>	<u>590,054</u>	<u>610,919</u>
Deferred inflows of resources	<u>31,940</u>	<u>23,818</u>	<u>4,094</u>
Net investment in capital assets	186,635	176,307	175,132
Restricted nonexpendable	83,012	77,528	74,891
Restricted expendable	39,873	45,376	47,690
Unrestricted	(26,375)	(19,380)	(17,416)
Total net position	<u>\$ 283,145</u>	<u>\$ 279,831</u>	<u>\$ 280,297</u>

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Current assets consist principally of cash and cash equivalents, grants and accounts receivable, net of allowances, deposits held with trustees, and short-term investments. The increase in current assets at June 30, 2019 as compared to June 30, 2018 of \$9,984 principally relates to a net increase in cash and cash equivalents and short-term investments, partially offset by a decrease in grants and accounts receivable, net. The large shift from short-term investments to cash and cash equivalents at June 30, 2019 as compared to June 30, 2018 was the result of a strategic decision related to investment goals. The increase in current assets at June 30, 2018 as compared to June 30, 2017 of \$30,213 principally relate to increases in short-term investments, primarily due to a change in investment strategy, and grants and contracts receivable, net, due to the timing of cash receipts, partially offset by a decrease in cash and cash equivalents.

Current liabilities are comprised of accounts payable and accrued liabilities, the current portion of long-term debt, unearned advance payments, and amounts due to affiliates. The decrease in current liabilities at June 30, 2019 as compared to June 30, 2018 of \$3,730 results from a decrease in cash held for NJEDGE.Net, an affiliate, and a reduction in the current portion of long-term debt as a result of the repayment of a master lease, partially offset by an increase in accounts payable and accrued liabilities and unearned advance payments. The decrease in current liabilities at June 30, 2018 as compared to June 30, 2017 of \$8,769 results from decreases in accounts payable and accrued liabilities, principally resulting from the winding down of construction and renovation activities, due to affiliates, and current portion of long-term debt, partially offset by an increase in unearned advance payments.

Excluding deposits held with trustees, which can only be used for debt service and facilities construction, and the current portion of long-term debt, current assets exceeded current liabilities by \$105,660 and \$93,010 at June 30, 2019 and 2018, respectively. The University had \$114,159 and \$100,002 in cash and cash equivalents and short-term investments to fund current operations, facilities rehabilitation projects, and other activities at June 30, 2019 and 2018, respectively. The net increase of cash and cash equivalents and short-term investments at June 30, 2019 of \$14,157 principally relates to the timing of cash receipts relating to State grants, State accounts receivables, student accounts receivables, and gifts and bequests for other than capital purposes. The net increase in cash and cash equivalents and short-term investments at June 30, 2018 of \$10,229 principally relates to the decrease in noncurrent investments, due to a change in investment strategy, gifts and bequests for other than capital purposes, advance payments from grants, and reimbursement from capital grants of a portion of the expenditures for the rehabilitation and renovation of Makerspace at NJIT, partially offset by an increase in grants and contracts receivable.

Endowment investments include gifts from donors, the corpus of which is to be invested in perpetuity, annuity funds, unrestricted funds established by NJIT as quasi-endowment, and the related income and appreciation. Endowment investments increased 8.1% and 4.9% during fiscal years 2019 and 2018, respectively, reflecting growth from new gifts, realized net investment gains, a net increase in the fair value of investments at June 30, 2019 and 2018, offset by endowment distributions.

Capital assets, at cost, increased 3.7% and 7.6% during fiscal years 2019 and 2018, respectively. The fiscal year 2019 and 2018 increases primarily result from continued work on the renovation of Makerspace at NJIT, with the completion of Phase I in fiscal year 2019 and the expected completion of Phase II in fiscal year 2020; continued work on the construction of the soccer field, with an expected completion in fiscal year 2020, and rehabilitation and renovation of various campus facilities; partially

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offset by the write-off of equipment and other assets no longer in service in both fiscal years. During fiscal year 2018, the Wellness and Events Center and a state-of-the-art research facility were completed. Other assets are comprised of investments, investments – capital construction, deposits held with trustees, beneficial interest trusts, and other noncurrent assets. The decrease in other assets of \$21,954 and \$77,477 at June 30, 2019 and 2018, respectively, was principally due to a decrease in deposits held with trustees, resulting from the reimbursement of capital expenditures, and the utilization of investments – capital construction in fiscal years 2019 and 2018, and the collection of Building Our Future receivables, recorded in other assets, for capital expenditures in fiscal year 2018.

Deferred outflows of resources consist of loss on defeasance of debt and certain changes in the net pension liability. The decrease in deferred outflows of resources of \$4,848 and \$3,030 at June 30, 2019 and June 30, 2018, respectively, principally relate to changes in contributions made on behalf of the University subsequent to the measurement date and certain changes in the net pension liability.

Total long-term debt at June 30, 2019 and 2018 was \$346,723 and \$352,058, respectively.

At June 30, 2019 and 2018, the University's bond ratings and outlook were as follows:

	<b>Moody's Investors Service</b>	<b>Standard &amp; Poor's</b>
Long-Term Rating	A1	A
Rating Outlook	Stable	Stable

Other liabilities consist of net pension liability, other noncurrent liabilities, and U.S. government grants refundable. The decrease in other liabilities of \$5,948 and \$6,761 at June 30, 2019 and June 30, 2018, respectively, principally relates to the reduction in the net pension liability in both years, partially offset by the recording of a pollution remediation liability in fiscal year 2018.

Deferred inflows of resources consist of gain on defeasance of debt, certain changes in the net pension liability, and certain changes in annuity funds liability. The increase in deferred inflows of resources of \$8,122 and \$19,724 at June 30, 2019 and 2018, respectively, principally relates to certain changes in the net pension liability.

Net investment in capital assets represents the University's interests in land and land improvements, buildings and building improvements, equipment and other assets, and construction in progress, less related depreciation and amortization, and the debt incurred to finance their acquisition. Net investment in capital assets increased \$10,328 and \$1,175 during fiscal years 2019 and 2018, respectively, principally due to the increase in capital assets discussed above and a net decrease in long-term debt in both fiscal years, partially offset by depreciation expense.

Restricted nonexpendable net position represents the original value of additions to the University's donor-restricted endowments and the fair value of beneficial interest in perpetual trusts. Restricted expendable net position includes gifts that are restricted to use for specific purposes by the donor, capital grants and gifts, endowment income, and other restricted resources. As discussed above, donor-restricted endowment funds represent gifts from donors that are to be invested in perpetuity.

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Restricted net position decreased \$19 during fiscal year 2019, primarily due to a decrease in restricted expendable net position for capital projects as a result of expenditures of capital grant funds, largely offset by an increase in both nonexpendable and expendable restricted net position for scholarships and fellowships, resulting from additions to permanent endowments and unexpended restricted gifts for scholarships and fellowships, respectively. Restricted net position increased \$323 during fiscal year 2018, primarily due to increases in restricted nonexpendable scholarships and fellowships and instructional and other as a result of additions to permanent endowments, and restricted expendable scholarships and fellowships and instructional and other, principally due to investment income; partially offset by a decrease in restricted expendable net position for capital projects, resulting from expenditures of capital grant funds.

Unrestricted net position is all other net position that is available for general operations in support of the University's mission. Even though unrestricted net position is not subject to external restrictions, management, with the approval of the Board, has designated a portion of the unrestricted net position for the following specified purposes. The June 30, 2017 unrestricted net position is also presented for comparative purposes.

	<b>June 30,</b>		
	<b>2019</b>	<b>2018</b>	<b>2017</b>
Designated unrestricted net position:			
Quasi-endowments	\$ 21,739	\$ 18,091	\$ 15,452
Instructional and other	4,616	4,513	3,811
Construction and capital programs	41,098	38,106	29,600
Wellness and Events Center construction	-	11,963	15,308
State bond funds required match	38	92	256
Debt service	17,710	12,228	6,542
Pollution remediation	2,035	2,259	-
Outstanding purchase orders	4,626	8,558	8,558
	<u>91,862</u>	<u>95,810</u>	<u>79,527</u>
Undesignated unrestricted net position:			
Pension related	(144,828)	(137,953)	(124,766)
Operations	26,591	22,763	27,823
	<u>\$ (26,375)</u>	<u>\$ (19,380)</u>	<u>\$ (17,416)</u>

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**Statement of Revenues, Expenses, and Changes in Net Position**

The statement of revenues, expenses, and changes in net position presents the operating results and the non-operating and other revenues and expenses of the University.

The components of revenues for the fiscal years ended June 30, 2019 and 2018 are as follows. The components of revenues for the fiscal year ended June 30, 2017 are also presented for comparative purposes:

	<b>Fiscal Years Ended June 30,</b>		
	<b>2019</b>	<b>2018</b>	<b>2017</b>
Operating revenues:			
Student tuition and fees, net	\$ 136,286	\$ 131,796	\$ 132,660
Federal, State, and other grants and contracts	136,492	131,120	121,104
Auxiliary enterprises, net	16,953	16,389	15,927
Other operating revenues	6,909	5,561	5,823
Total operating revenues	<u>296,640</u>	<u>284,866</u>	<u>275,514</u>
Non-operating and other revenues:			
State appropriations	109,440	124,010	96,529
Gifts and bequests, capital grants and gifts, and additions to permanent endowments	12,569	7,738	21,099
Investment income	12,086	12,157	15,449
Other non-operating revenues, net	4,776	2,125	2,152
Total non-operating and other revenues	<u>138,871</u>	<u>146,030</u>	<u>135,229</u>
Total revenues	<u>\$ 435,511</u>	<u>\$ 430,896</u>	<u>\$ 410,743</u>

The components of expenses for the fiscal years ended June 30, 2019 and 2018 are as follows. The components of expenses for the fiscal year ended June 30, 2017 are also presented for comparative purposes:

	<b>Fiscal Years Ended June 30,</b>		
	<b>2019</b>	<b>2018</b>	<b>2017</b>
Operating expenses:			
Instruction	\$ 116,451	\$ 118,983	\$ 109,424
Research and programs	92,619	90,223	80,326
Public service	2,153	2,286	2,022
Academic support	34,374	34,804	31,328
Student services	31,513	30,280	25,837
Institutional support	58,291	61,160	56,990
Operation and maintenance of plant	26,259	30,668	25,155
Scholarships and fellowships	10,455	10,045	9,321
Depreciation	35,166	31,073	26,887
Auxiliary enterprises	9,927	9,397	9,111
Total operating expenses	<u>417,208</u>	<u>418,919</u>	<u>376,401</u>
Non-operating expenses – interest expense	14,989	12,443	9,686
Total expenses	<u>\$ 432,197</u>	<u>\$ 431,362</u>	<u>\$ 386,087</u>

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Student tuition and fees; Federal, State, and other grants and contracts; and State appropriations are the primary sources of funding for the University's operating expenses.

Student tuition and fees totaled \$136,286, \$131,796 and \$132,660, net of scholarship allowances of \$64,419, \$60,272 and \$54,560 in fiscal years 2019, 2018, and 2017, respectively. The fiscal year 2019 increase was attributable to a tuition and mandatory fees increase of 2.6% as well as the composition of student enrollment, partially offset by an increase in scholarship allowances. The fiscal year 2018 decrease was attributable to growth in enrollment and tuition and mandatory fees increase of 2.85%, being more than offset by the increase in scholarship allowances.

Auxiliary enterprises revenues, net of scholarship allowances of \$5,875, \$5,463 and \$4,710 in fiscal years 2019, 2018, and 2017, respectively, increased 3.4% to \$16,953 in fiscal year 2019 and 2.9% to \$16,389 in fiscal year 2018, principally due to increased occupancy and residence hall charges in both fiscal years.

In accordance with GASB requirements, State appropriations are reported as non-operating revenues despite the fact that their purpose is to fund operating activities.

The components of State appropriations are as follows:

	<b>Fiscal Years Ended June 30,</b>		
	<b>2019</b>	<b>2018</b>	<b>2017</b>
Direct appropriation for general operating purposes	\$ 35,440	\$ 35,440	\$ 35,440
Direct appropriation for Makerspace operating support	-	10,000	-
Direct appropriation for Medical Devices Innovation Cluster	3,700	-	-
FICA and fringe benefits paid by the State for University employees	41,361	40,971	40,232
Other postemployment benefits	11,386	17,417	-
Fringe benefit equalization adjustment	17,553	20,182	20,857
	<b>\$ 109,440</b>	<b>\$ 124,010</b>	<b>\$ 96,529</b>

The fiscal year 2019 State appropriations decrease was primarily due to an additional appropriation in fiscal year 2018 for Makerspace operating support as well as decreases in other postemployment benefits (OPEB) and the fringe benefit equalization adjustment, partially offset by the Medical Devices Innovation Cluster appropriation in fiscal year 2019. The fiscal year 2018 State appropriations increase was primarily the result of the implementation of GASB 75 and an additional appropriation for Makerspace operating support.

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Federal, State, and other grants and contracts revenues, which include facilities and administrative costs recovery, primarily fund the University's research and development activities and student financial assistance programs, and are comprised of the following:

	<b>Fiscal Years Ended June 30,</b>		
	<b>2019</b>	<b>2018</b>	<b>2017</b>
Federal grants and contracts	\$ 106,754	\$ 100,769	\$ 92,582
State grants and contracts	26,109	25,297	23,545
Other grants and contracts	3,629	5,054	4,977
	<b>\$ 136,492</b>	<b>\$ 131,120</b>	<b>\$ 121,104</b>

Federal grants and contracts revenues increased 5.9% and 8.8% in fiscal years 2019 and 2018, respectively, due to increases in research grants and contracts and student financial assistance grants. State grants and contracts revenues increased 3.2% and 7.4% in fiscal years 2019 and 2018, respectively, due to an increases in student financial assistance grants, partially offset by a decrease in research grants and contracts. Other grants and contracts revenues decreased 28.2% in fiscal year 2019 after remaining relatively constant in fiscal year 2018.

Private support from corporations, foundations, alumni, and other donors is an important factor in the University's growth and development. In fiscal years 2019 and 2018, respectively, the University received gifts and bequests totaling \$7,146 and \$4,792, capital grants and gifts of \$162 and \$648, and additions to permanent endowments of \$5,261 and \$2,298. The fiscal year 2019 increase in gifts and bequests is principally due to one pledge of approximately \$3,000 in support of scholarships.

Investment income includes interest and dividends, as well as realized and unrealized gains and losses. During fiscal years 2019 and 2018, investment income of \$12,086 and \$12,157 was due to interest and dividends, realized net gain on sale of investments, and a net increase and a net decrease in the fair value of investments at June 30, 2019 and 2018, respectively.

Instruction, academic support, student services, and scholarships and fellowships expenses totaled \$192,793, \$194,112, and \$175,910 in fiscal years 2019, 2018, and 2017, respectively. Expenses remained relatively constant in fiscal year 2019 with a slight decrease of 0.7%, comprised of decreases in OPEB expense and pension expense, nearly offset by increased salaries and fringe benefits and consulting services, primarily relating to student recruiting and academic support. The increase of 10.3% in fiscal year 2018 is primarily due to the recording of OPEB expense; increased salaries and fringe benefits and pension expense; consulting services, primarily relating to student recruiting; and computer software maintenance and license fees.

Research and programs expense increased 2.7% to \$92,619 and 12.3% to \$90,223 in fiscal years 2019 and 2018, respectively, primarily due to an increase in Federal research and program expenditures in both fiscal years, with fiscal year 2019 expenses being offset by decreases in OPEB expense and pension expense, and fiscal year 2018 expenses being further increased due to the recording of OPEB expense.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Management's Discussion and Analysis (unaudited)**  
**(Dollars in thousands)**  
**June 30, 2019 and 2018**

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Public service expense decreased 5.8% to \$2,153 in fiscal year 2019 primarily due to decreases in legal fees and pension expense and increased 13.1% to \$2,286 in fiscal year 2018 primarily as a result of increases in legal fees in connection with the City of Newark real estate tax exemptions, pension expense, allowance for doubtful accounts receivable, and the recording of OPEB expense.

Institutional support expense decreased 4.7% to \$58,291 in fiscal year 2019, primarily due to decreases in OPEB expense, pension expense, salary and fringe benefit expense, and legal fees, partially offset by an increase in consulting services, primarily relating to marketing. The fiscal year 2018 increase of 7.3% to \$61,160 was primarily due to the recording of OPEB expense.

Operation and maintenance of plant expense decreased 14.4% in fiscal year 2019 to \$26,259 and increased 21.9% to \$30,668 in fiscal year 2018. The fiscal year 2019 decrease was primarily due the recording of a pollution remediation liability in fiscal year 2018 and decreases in pension expense, OPEB expense, consulting services, and disposal costs, partially offset by increased repair services. The fiscal year 2018 increase was primarily due to the recording of a pollution remediation liability and OPEB expense as well as increases in pension expense, salaries and fringe benefits, and utility costs, partially offset by decreases in consulting services and disposal costs.

Auxiliary enterprises expense increased 5.6% to \$9,927 in fiscal 2019, primarily due to an increase in repairs and maintenance costs for residence halls, and increased 3.1% to \$9,397 in fiscal year 2018, primarily due to the recording of OPEB expense.

During fiscal years 2019 and 2018, the University incurred long-term debt interest costs of \$14,989 and \$15,161, of which \$2,718 was capitalized in fiscal year 2018 and will be amortized over the estimated useful lives of the associated capital assets.

### **Summary and Outlook**

The University is in a sound financial position at June 30, 2019. Overall enrollment remained constant for the fiscal 2019 academic year, with an increase in the residence hall census. The University continues to pursue its strategy of enhancing its research and development activities. The University's fundraising activities are successful, and have generated a significant endowment.

All eight bargaining unit contracts expired on June 30, 2019. Negotiations have successfully concluded with five of the unions and are ongoing with the remaining three unions. Significant progress has been made and it is anticipated that the remaining negotiations will come to mutually favorable conclusions.

The University's endowment is managed with a broad-based asset allocation. The University's endowment investment strategy is designed to maintain purchasing power of pooled endowment fund assets, with an emphasis on total return, via a group of managers, each focused on their sector of the asset allocation, limited exposure to sub-prime investments, and the use of alternative investments. The endowment spending policy provides for appropriate funding of donors' purposes.

As part of its long-range plan, the University expects that its activities will continue to increase the total operating budget. As a result of the State's reduction in funding for higher education over the past several fiscal years, management initiated steps to increase alternative funding sources and to reduce expenses, including increases in enrollment, cost containment initiatives, a more aggressive research

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Management's Discussion and Analysis (unaudited)**  
**(Dollars in thousands)**  
**June 30, 2019 and 2018**

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and development program, a more intensive fund raising program, and increases in tuition and fees. Included in the University's strategic plan are a greater emphasis on expanded outreach programs, increased scholarships, the establishment of new programs and extension sites in order to generate increases in enrollment, and the hiring of new faculty members who have a stronger inclination to become involved in research activities in addition to their teaching responsibilities in order to expand its research and development program. The University's efforts in these resource generating and expense management initiatives have been and are anticipated to continue to be successful.

As part of the approved State budget for fiscal year 2020, the University will receive \$3.7 million in funding for the Medical Devices Innovation Cluster as well as a \$1.2 million net increase in base appropriation as a result of a new outcomes-based allocation.

Management has been and will continue to be an active participant in the State's planning process, in order to ensure that its voice is heard and the University's needs are properly presented and considered in the State's financial deliberations.

All in all, the University's management is of the opinion that the University's financial condition is strong.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Statement of Net Position**  
**(Dollars in thousands)**  
**At June 30, 2019 and 2018**

	<b>2019</b>	<b>2018</b>
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 88,636	\$ 13,477
Short-term investments	25,523	86,525
Grants and accounts receivable, net	54,203	58,426
Deposits held with trustees	8,570	8,321
Other current assets	2,033	2,232
Total current assets	<u>178,965</u>	<u>168,981</u>
Noncurrent assets:		
Endowment investments	122,812	113,638
Investments	1,816	2,354
Beneficial interest trusts	4,499	4,237
Investments – capital construction	14,872	22,073
Deposits held with trustees	2,244	15,584
Other assets	3,671	4,808
Capital assets, net of accumulated depreciation of \$426,862 and \$397,905, respectively	525,106	520,224
Total noncurrent assets	<u>675,020</u>	<u>682,918</u>
Total assets	<u>853,985</u>	<u>851,899</u>
<b>Deferred outflows of resources</b>		
	<u>36,956</u>	<u>41,804</u>
<b>Liabilities</b>		
Current liabilities:		
Accounts payable and accrued liabilities	48,612	47,847
Long-term debt, current portion	4,520	5,335
Unearned advance payments	15,015	14,942
Due to affiliates	1,108	4,861
Total current liabilities	<u>69,255</u>	<u>72,985</u>
Noncurrent liabilities:		
Long-term debt	342,203	346,723
Other noncurrent liabilities	16,342	16,838
Net pension liability	147,616	153,057
U.S. government grants refundable	440	451
Total noncurrent liabilities	<u>506,601</u>	<u>517,069</u>
Total liabilities	<u>575,856</u>	<u>590,054</u>
<b>Deferred inflows of resources</b>		
	<u>31,940</u>	<u>23,818</u>
<b>Net Position</b>		
Net investment in capital assets	186,635	176,307
Restricted for:		
Nonexpendable:		
Scholarships and fellowships	69,079	64,971
Instructional and other	13,933	12,557
Expendable:		
Capital projects	4,510	15,281
Scholarships and fellowships	21,470	16,469
Instructional and other	9,973	10,702
Research and programs	2,143	1,417
Debt service	1,445	1,180
Loans	332	327
Unrestricted	(26,375)	(19,380)
Total net position	<u>\$ 283,145</u>	<u>\$ 279,831</u>

*The accompanying notes are an integral part of these financial statements.*

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Statement of Revenues, Expenses, and Changes in Net Position**  
**(Dollars in thousands)**  
**For the years ended June 30, 2019 and 2018**

	<b>2019</b>	<b>2018</b>
<b>Operating revenues</b>		
Student tuition and fees, net of scholarship allowances of \$64,419 and \$60,272, respectively	\$ 136,286	\$ 131,796
Federal grants and contracts	106,754	100,769
State grants and contracts	26,109	25,297
Other grants and contracts	3,629	5,054
Auxiliary enterprises, net of scholarship allowances of \$5,875 and \$5,463, respectively	16,953	16,389
Other operating revenues	6,909	5,561
Total operating revenues	<u>296,640</u>	<u>284,866</u>
<b>Operating expenses</b>		
Instruction	116,451	118,983
Research and programs	92,619	90,223
Public service	2,153	2,286
Academic support	34,374	34,804
Student services	31,513	30,280
Institutional support	58,291	61,160
Operation and maintenance of plant	26,259	30,668
Scholarships and fellowships	10,455	10,045
Depreciation	35,166	31,073
Auxiliary enterprises	9,927	9,397
Total operating expenses	<u>417,208</u>	<u>418,919</u>
Operating loss	<u>(120,568)</u>	<u>(134,053)</u>
<b>Non-operating revenues (expenses)</b>		
State appropriations	109,440	124,010
Gifts and bequests	7,146	4,792
Interest expense	(14,989)	(12,443)
Investment income	12,086	12,157
Other non-operating revenues, net	4,776	2,125
Net non-operating revenues	<u>118,459</u>	<u>130,641</u>
Loss before other revenues	<u>(2,109)</u>	<u>(3,412)</u>
<b>Other revenues</b>		
Capital grants and gifts	162	648
Additions to permanent endowments	5,261	2,298
Total other revenues	<u>5,423</u>	<u>2,946</u>
Increase (decrease) in net position	<u>3,314</u>	<u>(466)</u>
<b>Net position, beginning of year</b>	<u>279,831</u>	<u>280,297</u>
<b>Net position, end of year</b>	<u>\$ 283,145</u>	<u>\$ 279,831</u>

*The accompanying notes are an integral part of these financial statements.*

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Statement of Cash Flows**  
**(Dollars in thousands)**  
**For the years ended June 30, 2019 and 2018**

	<b>2019</b>	<b>2018</b>
<b>Cash flows from operating activities</b>		
Student tuition and fees	\$ 136,674	\$ 132,968
Grants and contracts	133,272	120,907
Payments for salaries and benefits	(199,962)	(200,449)
Payments for goods and services	(102,201)	(101,305)
Payments for scholarships and fellowships	(10,455)	(10,045)
Loans collected from students	332	299
Auxiliary enterprises	16,950	16,334
University programs	406	176
Affiliates	(3,760)	(1,682)
Other receipts	2,398	6,402
Net cash used by operating activities	<u>(26,346)</u>	<u>(36,395)</u>
<b>Cash flows from noncapital financing activities</b>		
State appropriations	62,046	55,009
Gifts and bequests for other than capital purposes	7,643	6,295
Additions to permanent endowments	4,967	1,843
Other receipts	2,478	3,704
Net cash provided by noncapital financing activities	<u>77,134</u>	<u>66,851</u>
<b>Cash flows from capital financing activities</b>		
Other receipts (payments)	-	8,786
Mortgage payments received	289	322
Capital grants and gifts	29	39
Purchase of capital assets	(40,918)	(84,267)
Principal paid on long-term debt	(4,721)	(5,887)
Interest paid on long-term debt	(15,362)	(14,245)
Purchase of investments – capital construction	(22,356)	(22,073)
Sale of investments – capital construction	29,165	63,328
Deposits with trustees	21,958	32,293
Withdrawals from trustees	(8,803)	(23,905)
Net cash used by capital financing activities	<u>(40,719)</u>	<u>(45,609)</u>
<b>Cash flows from investing activities</b>		
Proceeds from sales and maturities of investments	338,596	185,580
Interest and dividends on investments	6,255	5,226
Purchase of investments	(279,761)	(183,218)
Net cash provided by investing activities	<u>65,090</u>	<u>7,588</u>
Net increase (decrease) in cash and cash equivalents	<u>75,159</u>	<u>(7,565)</u>
<b>Cash and cash equivalents, beginning of year</b>	<u>13,477</u>	<u>21,042</u>
<b>Cash and cash equivalents, end of year</b>	<u>\$ 88,636</u>	<u>\$ 13,477</u>
<b>Reconciliation of operating loss to net cash used by operating activities</b>		
Operating loss	\$ (120,568)	\$ (134,053)
Adjustments to reconcile operating loss to net cash used by operating activities:		
Depreciation	35,166	31,073
Noncash operating expenses	63,327	73,721
Changes in assets and liabilities:		
Grants and accounts receivable	(2,969)	(12,142)
Other assets, current and noncurrent	887	57
Accounts payable and accrued liabilities	1,535	5,090
Unearned advance payments	29	1,543
Due to affiliates	(3,753)	(1,684)
Net cash used by operating activities	<u>\$ (26,346)</u>	<u>\$ (36,395)</u>
Noncash transactions:		
State appropriations for fringe benefits	\$ 57,637	\$ 61,411
Gifts and bequests for other than capital purposes	3,376	130
Investment income	-	24
Gifts for capital purposes	133	1,764
Additions to permanent endowments	294	455
Capital assets	(911)	(12,151)

*The accompanying notes are an integral part of these financial statements.*

# NEW JERSEY INSTITUTE OF TECHNOLOGY

## Notes to Financial Statements

(Dollars in thousands)

June 30, 2019 and 2018

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### 1. Organization and Summary of Significant Accounting Policies

New Jersey Institute of Technology (NJIT), a public research university, includes six collegiate units: Newark College of Engineering, Ying Wu College of Computing, Hillier College of Architecture and Design, College of Science and Liberal Arts, Martin Tuchman School of Management, and Albert Dorman Honors College; a graduate division; an executive education and professional development program; and a number of research centers. Fields of study include engineering, computer science, architecture, applied sciences, management, statistics, and actuarial science. NJIT offers programs and courses leading to bachelors, masters, and doctoral degrees, and also conducts an extensive research program.

The New Jersey Institute of Technology Act of 1995 established NJIT as a body corporate and politic and determined that the exercise of NJIT's powers was a public and essential government function. NJIT has its origins in an 1881 New Jersey statute.

Foundation at New Jersey Institute of Technology (Foundation) is a component unit of NJIT. The Foundation raises and manages funds to support the further development and growth of programs at NJIT. Because of the significance of its operational and financial relationships with NJIT and because it exclusively benefits NJIT, the Foundation's financial statements are combined and reported on a blended basis with those of NJIT. Copies of the Foundation's financial statements can be obtained by writing to Foundation at New Jersey Institute of Technology, University Heights, Newark, New Jersey 07102, Attention: Development and Alumni Relations.

New Jersey Innovation Institute, Inc. (NJII) is a component unit of NJIT. NJII applies the intellectual and technological resources of NJIT to challenges identified by industry partners in order to spur product creation and enhancement, develop solutions for sector-wide and/or company-focused challenges, and serve as a catalyst for regional economic growth. NJII, the sole shareholder, established Healthcare Innovation Solutions, Inc. (HCIS) on July 25, 2017. HCIS, which commenced operations on July 1, 2018, provides consulting services to the healthcare industry. The financial position and activities of HCIS are included with the financial position and activities of NJII. Because of the significance of its operational and financial relationships with NJIT, NJII's financial statements are combined and reported on a blended basis with those of NJIT. Copies of NJII's financial statements can be obtained by writing to New Jersey Innovation Institute, Inc., c/o New Jersey Institute of Technology, University Heights, Newark, New Jersey 07102.

Ten urban renewal limited liability companies (UREs) are component units of NJIT. The UREs operate residential buildings for NJIT student Greek organizations. Because of the significance of their operational and financial relationships with NJIT, the UREs' financial statements are combined and reported on a blended basis with those of NJIT.

Pursuant to the provisions of Governmental Accounting Standards Board (GASB) Statement No. 14, as amended, NJIT, which is financially dependent on the State of New Jersey (the State), is considered to be a component unit of the State for its financial reporting purposes. Accordingly, the financial statements of NJIT, the Foundation, NJII, and the UREs (collectively, the University) are included in the State's Comprehensive Annual Financial Report.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Notes to Financial Statements**  
**(Dollars in thousands)**  
**June 30, 2019 and 2018**

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*(a) Basis of Presentation*

The University's financial statements have been prepared on the accrual basis of accounting using the economic resources measurement focus, in accordance with U.S. generally accepted accounting principles as promulgated by the GASB. All significant transactions between NJIT, the Foundation, NJII, and the UREs have been eliminated.

*(b) Use of Estimates*

The financial statements include estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the statement of net position dates, as well as the reported amounts of revenues and expenses for the fiscal years then ended. Actual results could differ from those estimates.

*(c) Cash and Cash Equivalents*

The University considers money market funds, investments with original maturities of three months or less, and investments in sweep accounts with original maturities of twelve months or less to be cash equivalents, except for those included in endowment investments and deposits held with trustees.

*(d) Fair Value Measurement*

The University's investments are measured at fair value using valuation techniques that maximize the use of observable inputs and minimize the use of unobservable inputs. Observable inputs reflect market data obtained from independent sources, while unobservable inputs are based on market assumptions. The fair value hierarchy is comprised of the following three levels of inputs, of which the first two are considered observable and the last unobservable:

- Level 1: Quoted prices in active markets for identical assets.
- Level 2: Inputs other than Level 1 that are observable either directly or indirectly, such as quoted prices in markets that are not as active, or other inputs that are observable or can be corroborated by observable market data.
- Level 3: Significant unobservable inputs that are supported by little or no market activity.

A financial instrument's categorization within the valuation hierarchy is based on the lowest level of input significant to the fair value measurement. The categorization of an investment is based upon its pricing transparency and liquidity and does not necessarily correspond to the University's perceived risk of that investment.

*(e) Investments and Deposits Held with Trustees*

Investments and deposits held with trustees include investments in marketable equity securities, debt instruments, and mutual funds and are carried at fair value, based on quoted market prices. Hedge and other investment funds are carried at estimated fair value based principally on the Net Asset Values (NAV) reported by the fund managers, which are reviewed by management for

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
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reasonableness. Those estimated fair values may differ from the values that would have been used had a ready market for these securities existed.

Investment securities are exposed to various risks such as interest rate, market, and credit risks. Due to the level of risk associated with certain investment securities, changes in the values of investment securities could occur. Such changes could materially affect the amounts reported in the statement of net position.

**(f) Beneficial Interest Trusts**

Beneficial Interest Trusts are donor-established and funded trusts, which are not in the possession of, nor under the control of the University. Under the terms of the trusts, the University has the irrevocable right to receive all or a portion of the income earned on the trust assets in perpetuity or for the life of the trust. Annual distributions from the trusts are reported as investment income and adjustments to the beneficial interest to reflect changes in the fair value (if any) are reported as net increase (decrease) in the fair value of investments in the statement of revenues, expenses, and changes in net position.

**(g) Capital Assets**

Capital assets are carried at cost or, in the case of gifts, fair value at date of donation. Expenditures for replacements are capitalized, and the replaced items are retired. Gains or losses resulting from disposal of property are included in other non-operating revenues, net.

Depreciation is calculated on the straight-line basis. The University's capital assets policy establishes the following capitalization thresholds and estimated useful lives:

	<b>Capitalization Threshold</b>	<b>Estimated Useful Life</b>
Land improvements	\$ 50,000	20 years
Buildings and building improvements	50,000	20 to 40 years
Software	50,000	5 to 10 years
Equipment and other assets	5,000	3 to 10 years

**(h) Due to Affiliates**

Due to affiliates consists of amounts the University is holding as agent for the following entities:

	<b>June 30,</b>	
	<b>2019</b>	<b>2018</b>
NJEDge.Net	\$ 116	\$ 3,423
Student organizations	859	1,190
Other organizations	133	248
	<b>\$ 1,108</b>	<b>\$ 4,861</b>

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Notes to Financial Statements**  
**(Dollars in thousands)**  
**June 30, 2019 and 2018**

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*(i) Classification of Net Position*

The University classifies its resources into three net position categories:

- Net investment in capital assets is comprised of land and land improvements, buildings and building improvements, equipment and other assets, and construction in progress of the University, net of depreciation and amortization and the indebtedness incurred to finance their acquisition and construction. Title to capital assets acquired through research grants and contracts remains with the University at the conclusion of the grant or contract period with the permission of the grantor.
- Restricted nonexpendable net position is comprised of endowment and beneficial interest in perpetual trusts funds. Endowments are subject to restrictions of gift instruments requiring that the principal be invested in perpetuity. Beneficial interest in perpetual trusts represent funds for which the University is the beneficiary whose assets are not under its control.

Restricted expendable net position includes gifts that are restricted to use for specific purposes by the donor, capital grants and gifts, endowment income and appreciation, and other restricted resources. Funds that are restricted are utilized only for the specified purposes.

- Unrestricted net position is derived principally from student tuition and fees, gifts and bequests, and investment income, and is expended to meet the objectives of the University. The University designates portions of its unrestricted net position for certain specific purposes (see Note 12).

The University's policy is to first utilize available restricted expendable, and then unrestricted, resources in the conduct of its operations.

*(j) Classification of Revenue and Expense*

Operating revenues are those that result from the provision of services related to the University's principal purposes of instruction and research, and are generally associated with exchange transactions. Non-operating revenues result from activities that are not directly related to the University's principal purposes, but that exist in order to support them, and generally consist of nonexchange transactions. Other revenues arise from nonexchange transactions, which provide funding for acquisitions of capital assets and additions to permanent endowments.

Interest expense is reported as a non-operating activity.

*(k) Revenue Recognition*

Student tuition and fees revenues are recognized in the period earned. Student tuition and fees collected in advance of the fiscal year-end are recorded as unearned advance payments in the statement of net position.

Grants and contracts revenues are recognized when the related expenditures are incurred. The unexpended portion of advance grant payments is recorded as unearned advance payments in the statement of net position.

# NEW JERSEY INSTITUTE OF TECHNOLOGY

## Notes to Financial Statements

(Dollars in thousands)

June 30, 2019 and 2018

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Investment income, which includes interest, dividends, and realized and unrealized gains and losses, is recognized on the accrual basis. Gains and losses on investments are determined using specific identification, except for mutual funds, which are based on average cost.

Gifts and bequests are recorded upon receipt by the University. Pledges, other than endowment, are recognized as gift income and recorded at their present value. Additions to permanent endowments are recognized upon their receipt.

***(l) Facilities and Administrative Costs Recovery***

Facilities and administrative costs are recovered at rates specified under the various grants and contracts or at a predetermined rate negotiated with the U.S. Department of Health and Human Services, the University's cognizant Federal agency, and are recorded as grants and contracts revenues as expenditures are incurred.

***(m) Auxiliary Activities***

Auxiliary activities consist primarily of residence hall, parking operations, and food service commissions.

***(n) Fringe Benefits Paid by the State***

Certain fringe benefits for the University's employees are paid by the State. Such amounts (\$70,300 and \$78,570 in fiscal years 2019 and 2018, respectively) are included in State appropriations. The offsetting expenses are recorded within the appropriate operating expense categories.

***(o) Risk Management***

The University carries commercial insurance covering its risks of loss related to real and personal property, personal injuries, torts, errors and omissions, environmental damage, and natural and other unforeseen disasters.

***(p) Tax Status***

NJIT, the Foundation, and NJII have received determination letters from the Internal Revenue Service stating that they are organizations as described in Sections 115(a)(2), 501(c)(3), and 501(c)(3), respectively, of the Internal Revenue Code (the Code) and, therefore, are exempt from Federal income taxes under Section 501(a) of the Code on income generated by activities that are substantially related to their tax-exempt purposes. HCIS is a New Jersey for-profit company, which is subject to Federal and New Jersey state income taxes. In fiscal year 2019, the University calculated a tax liability for unrelated taxable business income pertaining to qualified transportation fringe benefits. At June 30, 2019, the remaining unpaid tax liability of \$27 is included in accounts payable and accrued expenses in the statement of net position. The UREs are limited liability companies wholly-owned by NJIT that are treated as disregarded entities for Federal income tax purposes.



# NEW JERSEY INSTITUTE OF TECHNOLOGY

## Notes to Financial Statements

(Dollars in thousands)

June 30, 2019 and 2018

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Hedge and other investment funds are comprised of directional and multi-strategy funds, private equity, and real assets. The University is committed to invest an additional \$3,764 in these funds over the next several fiscal years.

Investments – capital construction represent the proceeds of the 2017 Series A in both fiscal years 2019 and 2018 and 2015 Series A bonds in fiscal year 2018 (see Note 6). These funds are separately invested, and are designated for the acquisition of certain capital projects and the costs of construction of the Wellness and Events Center.

Deposits held with trustees represent restricted funds held by The Bank of New York Mellon under terms of the revenue bond and debt agreements with the New Jersey Educational Facilities Authority (NJEFA) and by U.S. Bank under terms of the general obligation bond agreements (see Note 6).

The University invests its endowment funds in accordance with applicable limitations set forth in gift instruments or guidelines established by NJIT's Board of Trustees and the Foundation's Board of Overseers. The University's investment strategy is to maintain purchasing power of pooled endowment fund assets, with an emphasis on total return. The following are the University's aggregate allocation guidelines by asset class: equities, up to 70%; real assets, up to 20%; multi-strategy hedges, up to 25%; and fixed income instruments, up to 35%. There are further allocation guidelines for specific investment categories within each asset class. The University may also invest in below investment grade bonds as equity substitutes within the overall allocation for equities.

Custodial credit risk – deposits is the risk that, in the event of the failure of a depository financial institution, the University will not be able to recover deposits that are in that institution's possession. The University's investment policy does not address custodial credit risk - deposits. Cash and cash equivalents have a bank balance of \$94,050 and \$16,612, including cash held by depositories of \$639 and \$966 at June 30, 2019 and 2018, respectively, of which \$356 and \$851 are insured by the Federal Deposit Insurance Corporation (FDIC). Cash and cash equivalents of \$500 at June 30, 2018 are insured by the Securities Investor Protection Corporation (SIPC); amounts in excess are neither collateralized nor insured.

Custodial credit risk – investments is the risk that, in the event of the failure of a counterparty, the University will not be able to recover the value of the investments that are in that counterparty's possession. The University's investment policy does not address custodial credit risk – investments. The University's investment securities are exposed to custodial credit risk if the securities are uninsured and unregistered and held by the counterparty, or by its trust department or agent, but not in the University's name. At June 30, 2019 and 2018, \$175,837 and \$248,495, respectively, of investments and deposits held with trustees are either insured or held by the University or its agent in the University's name.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Notes to Financial Statements**  
**(Dollars in thousands)**  
**June 30, 2019 and 2018**

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The University's investment policy places no limitation on the ratings for debt instruments. U.S. Treasury and government agency bonds are considered to have no credit risk. The money market funds and mutual bond funds included in the University's investment portfolio are not rated. At June 30, 2018, the University had no investments in commercial paper or corporate debt securities. The University's investments in commercial paper and corporate debt securities at June 30, 2019 are rated as follows by Standard & Poor's:

	<u>Rating</u>	<u>2019</u>
Commercial paper	A-1	\$ 746
Corporate debt securities	AA+	749
Corporate debt securities	AA-	748
Corporate debt securities	A+	749
Corporate debt securities	A	1,499
Corporate debt securities	A-	750
Corporate debt securities	BBB+	350
Total corporate debt securities		<u>4,845</u>
		<u>\$ 5,591</u>

Concentration of credit risk is the risk of loss attributed to the magnitude of the University's investment in a single issuer. There is no limit on the amount the University may invest in any issuer. The University's investments are diversified and are not currently exposed to this risk.

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The University's investment policy does not limit investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates. At June 30, 2019 and 2018, fixed income investments included in cash and cash equivalents, investments, and deposits held with trustees have the following maturities:

	<u>June 30, 2019</u>			
	<u>Fair Value</u>	<u>Investment Maturities (in years)</u>		
		<u>Less than 1</u>	<u>1 to 5</u>	<u>5 to 10</u>
Money market funds	\$ 114,457	\$ 114,457	\$ -	\$ -
Commercial paper	746	746	-	-
Corporate debt securities	4,845	-	4,845	-
Mutual bond funds	28,051	20	6,607	21,424
	<u>\$ 148,099</u>	<u>\$ 115,223</u>	<u>\$ 11,452</u>	<u>\$ 21,424</u>

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
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	<b>June 30, 2018</b>			
	<b>Fair Value</b>	<b>Investment Maturities (in years)</b>		
		<b>Less than 1</b>	<b>1 to 5</b>	<b>5 to 10</b>
Money market funds	\$ 60,868	\$ 60,868	\$ -	\$ -
Certificate of deposit	500	500	-	-
U.S. Treasury and government agency bonds	25	25	-	-
Mutual bond funds	80,063	7,953	48,580	23,530
	<b>\$ 141,456</b>	<b>\$ 69,346</b>	<b>\$ 48,580</b>	<b>\$ 23,530</b>

A portion of the University's endowment investments are held in an endowment investment pool. The cost and fair value of the pooled investments are as follows:

	<b>June 30,</b>			
	<b>2019</b>		<b>2018</b>	
	<b>Cost</b>	<b>Fair Value</b>	<b>Cost</b>	<b>Fair Value</b>
Money market funds	\$ 6,214	\$ 6,214	\$ 2,195	\$ 2,195
Corporate equity securities	40,786	53,242	39,262	49,655
Mutual equity funds	17,305	17,541	14,985	15,127
Mutual bond funds	16,012	15,749	15,378	14,926
Hedge and other investment funds	24,476	27,948	25,826	29,638
	<b>\$ 104,793</b>	<b>\$ 120,694</b>	<b>\$ 97,646</b>	<b>\$ 111,541</b>

For the years ended June 30, 2019 and 2018, the average return for the endowment investment pool was 5.6% and 7.4%, respectively.

The spending policy for endowment funds requires an annual calculation based on a three year rolling average of the fair value per pool unit. The spending rates for the years ended June 30, 2019 and 2018 were 4.7% and 4.6%, respectively. The University complies with the State's "Uniform Prudent Management of Institutional Funds Act," which governs the management and use of funds held by it.

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**3. Capital Assets**

The activity in capital assets and accumulated depreciation for the years ended June 30, 2019 and 2018 was as follows:

	June 30, 2018	Additions	Retirements	Placed Into Service	June 30, 2019
Depreciable assets:					
Land improvements	\$ 12,322	\$ -	\$ -	\$ -	\$ 12,322
Buildings and building improvements	714,825	-	-	14,470	729,295
Equipment and other assets	148,863	6,103	(6,225)	929	149,670
	<u>876,010</u>	<u>6,103</u>	<u>(6,225)</u>	<u>15,399</u>	<u>891,287</u>
Accumulated depreciation:					
Land improvements	5,185	593	-	-	5,778
Buildings and building improvements	296,135	22,075	-	-	318,210
Equipment and other assets	96,585	12,498	(6,209)	-	102,874
	<u>397,905</u>	<u>35,166</u>	<u>(6,209)</u>	<u>-</u>	<u>426,862</u>
	478,105	(29,063)	(16)	15,399	464,425
Nondepreciable assets:					
Land	18,375	-	-	-	18,375
Construction in progress	23,744	33,961	-	(15,399)	42,306
	<u>\$ 520,224</u>	<u>\$ 4,898</u>	<u>\$ (16)</u>	<u>\$ -</u>	<u>\$ 525,106</u>

	June 30, 2017	Additions	Retirements	Placed Into Service	June 30, 2018
Depreciable assets:					
Land improvements	\$ 12,080	\$ -	\$ (661)	\$ 903	\$ 12,322
Buildings and building improvements	597,537	893	(9,299)	125,694	714,825
Equipment and other assets	124,760	11,480	(1,547)	14,170	148,863
	<u>734,377</u>	<u>12,373</u>	<u>(11,507)</u>	<u>140,767</u>	<u>876,010</u>
Accumulated depreciation:					
Land improvements	5,197	576	(588)	-	5,185
Buildings and building improvements	283,600	19,855	(7,320)	-	296,135
Equipment and other assets	87,487	10,642	(1,544)	-	96,585
	<u>376,284</u>	<u>31,073</u>	<u>(9,452)</u>	<u>-</u>	<u>397,905</u>
	358,093	(18,700)	(2,055)	140,767	478,105
Nondepreciable assets:					
Land	18,375	-	-	-	18,375
Construction in progress	100,354	64,157	-	(140,767)	23,744
	<u>\$ 476,822</u>	<u>\$ 45,457</u>	<u>\$ (2,055)</u>	<u>\$ -</u>	<u>\$ 520,224</u>

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**4. Supplementary Statement of Net Position Detail**

	<b>June 30,</b>	
	<b>2019</b>	<b>2018</b>
Grants and accounts receivable:		
Federal and State grants and accounts receivable	\$ 45,264	\$ 53,368
Student accounts receivable	3,077	3,029
Program services accounts receivable	3,417	1,839
Other grants and accounts receivable	2,407	2,659
Pledges receivable, current portion	3,584	753
Student loans receivable, current portion	304	304
Mortgages receivable, current portion	70	-
Accrued interest receivable	189	19
	<u>58,312</u>	<u>61,971</u>
Less: allowance for doubtful accounts	4,109	3,545
	<u>\$ 54,203</u>	<u>\$ 58,426</u>
Other assets, noncurrent:		
Building Our Future Bonds proceeds receivable	\$ 113	\$ 330
Student loans receivable, net	66	398
Mortgages receivable	2,736	3,095
Pledges receivable, net	149	248
Other	607	737
	<u>\$ 3,671</u>	<u>\$ 4,808</u>
Deferred outflows of resources:		
Loss on defeasance of debt	\$ 3,749	\$ 4,139
Pension related	33,207	37,665
	<u>\$ 36,956</u>	<u>\$ 41,804</u>
Accounts payable and accrued liabilities:		
Salaries and fringe benefits	\$ 11,498	\$ 12,361
Accrued interest expense	7,451	7,489
Accounts payable – construction	9,802	10,713
Accounts payable – other	17,487	14,806
Other noncurrent liabilities, current portion	2,374	2,478
	<u>\$ 48,612</u>	<u>\$ 47,847</u>
Deferred inflows of resources:		
Gain on defeasance of debt	\$ 396	\$ 507
Annuity funds related	1,125	750
Pension related	30,419	22,561
	<u>\$ 31,940</u>	<u>\$ 23,818</u>

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**5. Noncurrent Liabilities**

The activity in noncurrent liabilities for the years ended June 30, 2019 and 2018 was as follows:

	<b>June 30, 2018</b>	<b>Additions</b>	<b>Reductions</b>	<b>June 30, 2019</b>	<b>Current Portion</b>
Long-term debt	\$ 335,909	\$ -	\$ (4,721)	\$ 331,188	\$ 3,884
Unamortized net premium	16,149	-	(614)	15,535	636
Total long-term debt	<u>352,058</u>	<u>-</u>	<u>(5,335)</u>	<u>346,723</u>	<u>4,520</u>
Retirement incentive programs	7,652	323	(1,949)	6,026	1,820
Annuity funds liability	758	62	(174)	646	96
Insurance liability reserve	1,417	-	-	1,417	-
Pollution remediation liability	2,259	-	(224)	2,035	-
Compensated absences	2,977	714	(417)	3,274	416
Other	4,253	2,078	(1,013)	5,318	42
Total other noncurrent liabilities	<u>19,316</u>	<u>3,177</u>	<u>(3,777)</u>	<u>18,716</u>	<u>2,374</u>
Net pension liability	153,057	9,007	(14,448)	147,616	-
U.S. government grants refundable	451	58	(69)	440	-
	<u>\$ 524,882</u>	<u>\$ 12,242</u>	<u>\$ (23,629)</u>	<u>\$ 513,495</u>	<u>\$ 6,894</u>

  

	<b>June 30, 2017</b>	<b>Additions</b>	<b>Reductions</b>	<b>June 30, 2018</b>	<b>Current Portion</b>
Long-term debt	\$ 341,796	\$ -	\$ (5,887)	\$ 335,909	\$ 4,721
Unamortized net premium	16,742	-	(593)	16,149	614
Total long-term debt	<u>358,538</u>	<u>-</u>	<u>(6,480)</u>	<u>352,058</u>	<u>5,335</u>
Retirement incentive programs	9,821	627	(2,796)	7,652	1,715
Annuity funds liability	773	155	(170)	758	176
Insurance liability reserve	1,442	-	(25)	1,417	-
Pollution remediation liability	-	2,259	-	2,259	-
Compensated absences	2,938	498	(459)	2,977	435
Other	2,406	2,766	(919)	4,253	152
Total other noncurrent liabilities	<u>17,380</u>	<u>6,305</u>	<u>(4,369)</u>	<u>19,316</u>	<u>2,478</u>
Net pension liability	162,353	13,928	(23,224)	153,057	-
U.S. government grants refundable	894	20	(463)	451	-
	<u>\$ 539,165</u>	<u>\$ 20,253</u>	<u>\$ (34,536)</u>	<u>\$ 524,882</u>	<u>\$ 7,813</u>

The current portion of other noncurrent liabilities is included in accounts payable and accrued liabilities.

Included in annuity funds liability is a net increase in the fair value of investments of \$20 and \$12 at June 30, 2019 and 2018, respectively.

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**6. Long-Term Debt**

Long-term debt is composed of:

	<u>June 30,</u>	
	<u>2019</u>	<u>2018</u>
General Obligation Bonds:		
2017 Series A issue:		
Term bonds (interest rates from 3.887% to 4.357%, final maturity in fiscal year 2048)	\$ 77,995	\$ 77,995
2015 Series A issue:		
Serial bonds (interest rates from 3.00% to 5.00%, due on various dates through fiscal year 2032)	12,520	12,520
Step coupon bonds (interest rates from 2.50% to 5.50%, final maturity in fiscal year 2036)	15,080	15,080
Term bonds (interest rate at 5.00%, final maturity in fiscal year 2046)	89,080	89,080
2012 Series A issue:		
Serial bonds (interest rates of 4.00% and 5.00%, due on various dates through fiscal year 2028)	3,795	3,795
Term bonds (interest rate at 5.00%, final maturity in fiscal year 2043)	41,685	41,685
2012 Series B issue:		
Serial bonds (interest rates from 2.17% to 3.723%, due on various dates through fiscal year 2026)	11,345	12,525
Term bond (interest rate at 3.323%, maturity in fiscal year 2025)	5,630	5,630
Revenue Bonds:		
2010 Series H issue:		
Serial bonds (interest rates from 3.75% to 5.00%, due on various dates through fiscal year 2026)	8,135	8,135
Term bonds (interest rate at 5.00%, final maturity in fiscal year 2032)	21,205	21,205
2010 Series I issue:		
Term bonds (interest rate at 6.41%, final maturity in fiscal year 2041)	20,450	20,450
Other Long-Term Debt:		
Higher Education Capital Improvement Fund	21,962	23,707
Equipment Leasing Fund	784	957
TD Master Leases	-	1,185
New Jersey Economic Development Authority note	1,226	1,366
Other	296	594
	<u>331,188</u>	<u>335,909</u>
Unamortized net premium on obligations	15,535	16,149
	<u>346,723</u>	<u>352,058</u>
Less: current portion	4,520	5,335
	<u>\$ 342,203</u>	<u>\$ 346,723</u>

The interest rates on all of the University's long-term debt are fixed.

The 2017 Series A Bonds were issued by the University for the purpose of financing the acquisition of certain capital projects and advance refunding portions of the 2010 Series H Bonds, the 2012 Series A Bonds, and the 2012 Series B Bonds.

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The University defeased portions of the 2010 Series H Bonds, 2012 Series A Bonds, and 2012 Series B Bonds by depositing funds into escrow accounts totaling \$63,604, which is sufficient to provide for the subsequent payment of principal and interest on the defeased indebtedness. These defeased bonds are not considered outstanding obligations of the University, and, therefore, neither the escrow account nor the defeased indebtedness are included in the accompanying statement of net position. At June 30, 2019 and 2018, there was approximately \$34,325 and \$37,010, respectively, of defeased debt outstanding to bondholders, which is expected to be fully redeemed by July 2022.

The 2017 Series A Bonds are subject to optional redemption prior to maturity on or after July 1, 2027 at a price of 100%.

The 2015 Series A Bonds were issued by the University to provide funds to partially finance the costs of constructing a wellness and events center and a parking facility. The bonds were issued at a premium of \$13,556, which is being amortized against interest expense over the life of the bonds. The 2015 Series A Serial Bonds and Term Bonds are subject to optional redemption prior to maturity on or after July 1, 2025, and the 2015 Series A Step Coupon Bonds are subject to optional redemption prior to maturity on or after July 1, 2020 at a price of 100%.

The 2012 Series A Bonds were issued by the University to provide funds to partially finance the costs of constructing the Warren Street Village. The bonds were issued at a premium of \$6,463, of which \$3,738 remained after the advance refunding of a portion of the 2012 Series A Bonds in fiscal year 2017, which is being amortized against interest expense over the life of the bonds. The 2012 Series A Bonds are subject to optional redemption prior to maturity on or after July 1, 2022 at a price of 100%.

The 2012 Series B Bonds were issued by the University for the purpose of advance refunding a prior issue of revenue bonds. The 2012 Series B Bonds are subject to optional redemption prior to maturity at any time at a price equal to the greater of 100% or the sum of the present value of the remaining scheduled payments of principal and interest.

The 2010 Series H and 2010 Series I Bonds were issued by NJEFA pursuant to an agreement with the University for the purpose of advance refunding a prior issue of revenue bonds and financing, in whole or in part, the costs of the acquisition, rehabilitation, and renovation of an academic facility and of campus deferred maintenance. The 2010 Series H Bonds were issued at a premium of \$2,489, of which \$683 remained after the advance refunding of a portion of the 2010 Series H Bonds in fiscal year 2017, which is being amortized against interest expense over the life of the bonds.

The 2010 Series H Bonds maturing on or before July 1, 2020 are not subject to optional redemption prior to maturity. The 2010 Series H Bonds maturing on or after July 1, 2021 are subject to redemption prior to maturity on or after July 1, 2020 at a price of 100%.

The University entered into a bond agreement and an interest rate lock agreement with TD Bank, N.A. to refund \$28,360 of outstanding 2010 Series H Bonds, on a forward delivery basis, with an anticipated bond purchase close on April 2, 2020.

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The 2010 Series I Bonds have been designated as “Build America Bonds”. Up to thirty-five percent of the interest payments will be paid by the Federal government. For the fiscal years ended June 30, 2019 and 2018, \$430 and \$429, respectively, of Federal government interest payments are included in interest expense and in other non-operating revenues, net in the statement of revenues, expenses, and changes in net position. The 2010 Series I Bonds are subject to optional redemption prior to maturity on or after July 1, 2020 at a price of 100%.

The Higher Education Capital Improvement Fund (HECIF) debt was issued by NJEFA to provide funds for certain construction and facilities improvements at the State’s public institutions of higher education. The University is responsible for one-third of its allocated debt service payments and related program service expenses. The HECIF debt bears interest rates from 3.00% to 5.50% and matures at various dates through fiscal year 2037.

The Equipment Leasing Fund (ELF) debt was issued by NJEFA to provide funds to finance certain equipment at the State’s public institutions of higher education. The University is responsible for twenty-five percent of the debt service payments and related program expenses. The ELF debt matures in fiscal year 2023.

The New Jersey Economic Development Authority note, which matures in fiscal year 2028, is noninterest bearing and payable monthly. Imputed interest expense totaled \$58 and \$62 in fiscal years 2019 and 2018, respectively.

The TD Master Lease was entered into for the purpose of financing the costs of an upgrade to the University’s information technology and research infrastructure. The TD debt bore interest at a rate of 1.72% and matured in fiscal year 2019.

All long-term debt agreements contain acceleration repayment clauses related to events of default whereby outstanding principal and related accrued interest may be immediately due and payable.

At June 30, 2019, deposits held with trustees included \$1,445 for principal payments on revenue bonds due on July 1, 2019. Payments due on long-term debt, including mandatory sinking fund payments on the bonds, are as follows for the fiscal years ending June 30:

	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
2020	\$ 4,939	\$ 15,183	\$ 20,122
2021	5,976	15,157	21,133
2022	7,297	14,936	22,233
2023	8,002	14,670	22,672
2024	8,109	14,368	22,477
2025 to 2029	39,810	67,698	107,508
2030 to 2034	59,382	57,389	116,771
2035 to 2039	64,533	41,390	105,923
2040 to 2044	76,330	24,329	100,659
2045 to 2047	55,365	5,007	60,372
	<b>\$ 329,743</b>	<b>\$ 270,127</b>	<b>\$ 599,870</b>

# NEW JERSEY INSTITUTE OF TECHNOLOGY

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The University has a line of credit agreement with a bank permitting it to borrow up to \$8,000 at the London Interbank Offered Rate (LIBOR) plus the applicable margin (from 0.9% to 1.2%) at the time of utilization. There were no borrowings against the agreement in fiscal year 2019.

Deferred loss on refunding associated with the University's long-term debt totaled \$3,749 and \$4,139, net of accumulated amortization of \$2,145 and \$1,755, at June 30, 2019 and 2018, respectively.

Deferred gain on refunding associated with the University's long-term debt totaled \$396 and \$507, net of accumulated amortization of \$510 and \$399, at June 30, 2019 and 2018, respectively.

Interest charges incurred in fiscal years 2019 and 2018 totaled \$14,989 and \$15,161, respectively. Of these amounts, \$2,718 was capitalized in fiscal year 2018.

### 7. Compensated Absences

Eligible employees accrue vacation leave based upon time employed with a maximum accumulation at June 30 of 10 to 50 days. In addition, eligible employees who retire are paid 50% of their unused sick time up to a maximum of \$15 per employee.

At June 30, 2019 and 2018, accounts payable and accrued liabilities include accrued vacation and related fringe benefits of \$7,399 and \$6,773, respectively, and unused sick time of \$416 and \$435, respectively. At June 30, 2019 and 2018, other noncurrent liabilities include \$2,858 and \$2,542, respectively, of unused sick time. In fiscal years 2019 and 2018, payments for unused sick time totaled \$417 and \$459, respectively.

### 8. Retirement Programs

#### *General Information about Pension Plans*

The University participates in several retirement plans covering its employees – the Public Employees' Retirement System (PERS), the Police and Firemen's Retirement System (PFRS), the Teachers' Pension and Annuity Fund (TPAF), and the Alternate Benefit Program (ABP), which are administered by the State of New Jersey, Division of Pensions and Benefits (the Division); New Jersey Institute of Technology Supplemental Benefit Program and Trust (the Supplemental Program) administered by the Teachers Insurance and Annuity Association (TIAA) governed by NJIT's Board of Trustees; and the NJII 401(k) Plan (the NJII Plan) administered by Principal Life Insurance Company. PERS, PFRS, and TPAF are defined benefit pension plans; ABP, the Supplemental Program, and the NJII Plan are defined contribution pension plans. Generally, all employees, except certain part-time employees, are eligible to participate in one of these plans.

The State issues a publicly available Comprehensive Annual Financial Report of the State of New Jersey, Division of Pensions and Benefits, which includes financial statements, required supplementary information, and detailed information about the PERS, PFRS, and TPAF fiduciary net position. These reports can be obtained by writing to the State of New Jersey, Department of the Treasury, Division of Pensions and Benefits, P.O. Box 295, Trenton, New Jersey 08625-0295, or obtained at [www.state.nj.us/treasury/pensions/financial-reports.shtml](http://www.state.nj.us/treasury/pensions/financial-reports.shtml).

# NEW JERSEY INSTITUTE OF TECHNOLOGY

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### *Defined Benefit Plans*

#### *Public Employees' Retirement System*

PERS is a cost sharing multi-employer defined benefit pension plan, which provides coverage to substantially all full-time employees and certain part-time employees of the State or public agencies who generally are not members of another State-administered retirement system.

Membership is mandatory for eligible employees. The vesting and benefit provisions are set by N.J.S.A. 43:15A. PERS provides retirement, life insurance, and disability benefits, including post-retirement health care benefits. All benefits vest after ten years of service, except for health care benefits, which vest after 25 years of service, or under the disability provisions of PERS. Benefits are determined by a member's tier (based on date of enrollment), as defined in the PERS plan documents, member's age, years of service, and final average salary.

The contribution policy is set by N.J.S.A. 43:15A and requires contributions by active members and contributing employers. The current employee contribution rate is 7.50% of base salary. Employer contributions are based on an actuarially determined rate. The annual employer contributions include funding for basic retirement allowances and noncontributory death benefits. The State's contribution on behalf of NJIT (State Contribution) to PERS was \$4,025 and \$3,280 for the fiscal years ended June 30, 2019 and 2018, respectively, which is recognized as deferred outflows of resources in the statement of net position.

NJIT participated in the State's early retirement incentive programs and is responsible for retirement incentive program contributions to PERS, which were \$221 and \$217 for the years ended June 30, 2019 and 2018, respectively.

#### *Police and Firemen's Retirement System*

PFRS is a cost sharing multiple-employer defined benefit pension plan, which provides coverage for substantially all permanent, full-time police officers and firefighters in the State.

Membership is mandatory for eligible employees. The vesting and benefit provisions are set by N.J.S.A. 43:16A. PFRS provides retirement, death, and disability benefits, including post-retirement health care benefits. All benefits vest after ten years of service, except disability benefits, which vest after four years of service. Benefits are determined by member's tier (based on date of enrollment), as defined in the PFRS plan documents, member's age, years of service, and final compensation.

The contribution policy is set by N.J.S.A. 43:16A and requires contributions by active members and contributing employers. The current employee contribution rate is 10% of base salary. Employer contributions are based on an actuarially determined rate. The annual employer contributions include funding for basic retirement allowances and noncontributory death benefits. The State Contribution to PFRS was \$1,460 and \$1,266 for the fiscal years ended June 30, 2019 and 2018, respectively, which is recognized as deferred outflows of resources in the statement of net position.

# NEW JERSEY INSTITUTE OF TECHNOLOGY

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### *Teachers' Pension and Annuity Fund*

TPAF is a cost sharing multiple-employer defined benefit pension plan with a special funding situation, by which the State is responsible to fund 100% of NJIT's contributions, excluding any of NJIT's early retirement incentive contributions. NJIT does not have any active members in TPAF.

Membership is mandatory for eligible employees. The vesting and benefit provisions are set by N.J.S.A. 18A:66. TPAF provides retirement, death, and disability benefits, including post-retirement health care benefits. All benefits vest after ten years of service, except medical benefits, which vest after 25 years of service or under the disability provision of TPAF. Members are always fully vested in their own contributions and, after three years of service credit, become vested for 2% of related interest earned on the contributions. In the case of death before retirement, members' beneficiaries are entitled to full interest credited to the members' accounts. Benefits are based on member's tier (based on date of enrollment), as defined in the TPAF plan documents, member's age, years of service, and final average salary.

The contribution policy is set by N.J.S.A. 18A:66 and requires contributions by active members and contributing employers. The State Contribution is based on an actuarially determined rate, and includes funding for basic retirement allowances and noncontributory death benefits for all participating employers. For the fiscal years ended June 30, 2019 and 2018, NJIT recognized both state appropriation revenue and pension expense of \$91 and \$122, respectively, for contributions by the State.

NJIT participated in the State's early retirement incentive programs and is responsible for retirement incentive program contributions to TPAF, which was \$59 for both years ended June 30, 2019 and 2018, respectively.

### *Net pension liabilities, pension expense, deferred outflows of resources, and deferred inflows of resources related to pensions*

Net pension liabilities, pension expense, deferred outflows of resources, and deferred inflows of resources amounts are reflective of the respective plan's published financial statements and actuarial valuations as of June 30, 2018 and 2017.

NJIT's respective net pension liability, deferred outflows of resources, deferred inflows of resources, and net pension expense related to PERS and PFRS, at and for the fiscal years ended June 30, 2019 and 2018, are as follows:

	<b>PERS</b>	<b>PFRS</b>	<b>Total</b>
Proportionate share of the net pension liability (\$)			
2019	\$ 124,450	\$ 23,166	\$ 147,616
2018	\$ 130,378	\$ 22,679	\$ 153,057
Proportionate share of the net pension liability (%)			
2019	0.525%	0.535%	
2018	0.508%	0.516%	

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	<b>PERS</b>	<b>PFRS</b>	<b>Total</b>
Deferred outflows of resources			
2019	\$ 29,095	\$ 4,112	\$ 33,207
2018	\$ 33,570	\$ 4,095	\$ 37,665
Deferred inflows of resources			
2019	\$ 26,475	\$ 3,944	\$ 30,419
2018	\$ 19,000	\$ 3,561	\$ 22,561
Net pension expense			
2019	\$ 6,022	\$ 853	\$ 6,875
2018	\$ 12,026	\$ 1,160	\$ 13,186

NJIT's proportionate share of each respective plan's 2019 and 2018 net pension liability was based on the State Contribution to the respective plans from July 1, 2017 to June 30, 2018 and July 1, 2016 to June 30, 2017, respectively, relative to the total contributions from all participating employers.

The components of pension related deferred outflows of resources and deferred inflows of resources as of June 30, 2019 and June 30, 2018 are as follows:

**Deferred outflows of resources**

	<b>June 30, 2019</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>Total</b>
Differences between expected and actual experience	\$ 2,166	\$ -	\$ 2,166
Net difference between projected and actual earnings on pension plan investments	352	340	692
Changes in assumptions	12,160	853	13,013
Changes in proportion	10,392	1,459	11,851
Contributions paid subsequent to June 30, 2018	4,025	1,460	5,485
	<u>\$ 29,095</u>	<u>\$ 4,112</u>	<u>\$ 33,207</u>
	<b>June 30, 2018</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>Total</b>
Differences between expected and actual experience	\$ 2,987	\$ -	\$ 2,987
Net difference between projected and actual earnings on pension plan investments	828	415	1,243
Changes in assumptions	17,054	1,358	18,412
Changes in proportion	9,421	1,056	10,477
Contributions paid subsequent to June 30, 2017	3,280	1,266	4,546
	<u>\$ 33,570</u>	<u>\$ 4,095</u>	<u>\$ 37,665</u>

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**Deferred inflows of resources**

	<b>June 30, 2019</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>Total</b>
Differences between expected and actual experience	\$ 1,038	\$ 324	\$ 1,362
Changes in assumptions	25,047	2,732	27,779
Changes in proportion	390	888	1,278
	<u>\$ 26,475</u>	<u>\$ 3,944</u>	<u>\$ 30,419</u>

  

	<b>June 30, 2018</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>Total</b>
Differences between expected and actual experience	\$ -	\$ 294	\$ 294
Changes in assumptions	18,458	1,929	20,387
Changes in proportion	542	1,338	1,880
	<u>\$ 19,000</u>	<u>\$ 3,561</u>	<u>\$ 22,561</u>

The State is legally obligated to fund TPAF on behalf of NJIT. NJIT's proportionate share of deferred outflows of resources, deferred inflows of resources, and the collective net pension liability of \$1,553 and \$1,754 as of June 30, 2019 and 2018, respectively, are reported by the State.

The \$5,485 and \$4,546 reported as deferred outflows of resources related to pensions resulting from State Contributions paid subsequent to June 30, 2018 and 2017, respectively, are recorded as deferred outflows of resources as of June 30, 2019 and 2018, respectively, and will be recognized as a reduction of the net pension liability in the fiscal year ending June 30, 2020 and fiscal year ended June 30, 2019. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be reflected in pension expense as follows:

	<b>PERS</b>	<b>PFRS</b>	<b>Total</b>
2020	\$ 3,027	\$ (38)	\$ 2,989
2021	1,629	(312)	1,317
2022	(2,100)	(548)	(2,648)
2023	(2,877)	(302)	(3,179)
2024	(1,084)	(92)	(1,176)
	<u>(1,405)</u>	<u>(1,292)</u>	<u>(2,697)</u>
Contributions paid subsequent to June 30, 2018	4,025	1,460	5,485
	<u>\$ 2,620</u>	<u>\$ 168</u>	<u>\$ 2,788</u>

***Defined Benefit Actuarial Assumptions***

NJIT's net pension liability as of June 30, 2019 for each plan was determined by an actuarial valuation as of July 1, 2017, which was rolled forward to June 30, 2018. NJIT's net pension liability as of June 30, 2018 for each plan was determined by an actuarial valuation as of July 1, 2016, which was rolled forward to June 30, 2017. The total pension liability for each

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plan was determined using the following actuarial assumptions:

	<b>2019</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>TPAF</b>
Valuation date	7/1/2017	7/1/2017	7/1/2017
Measurement date	6/30/2018	6/30/2018	6/30/2018
Inflation rate	2.25%	2.25%	2.25%
Salary increases:			
Through 2026	1.65% - 4.15% based on age	2.10% - 8.98% based on age	1.55 - 4.55%
Thereafter	2.65% - 5.15% based on age	3.10% - 9.98% based on age	2.00 - 5.45%
Investment rate of return	7.00%	7.00%	7.00%
Municipal bond rate – 2018	3.87%	3.87%	3.87%
Discount rate – 2018	5.66%	6.51%	4.86%
Experience study dates	7/1/2011-6/30/2014	7/1/2010-6/30/2013	7/1/2012-6/30/2015
	<b>2018</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>TPAF</b>
Valuation date	7/1/2016	7/1/2016	7/1/2016
Measurement date	6/30/2017	6/30/2017	6/30/2017
Inflation rate	2.25%	2.25%	2.25%
Salary increases:			
Through 2026	1.65% - 4.15% based on age	2.10% - 8.98% based on age	Varies based on experience
Thereafter	2.65% - 5.15% based on age	3.10% - 9.98% based on age	Varies based on experience
Investment rate of return	7.00%	7.00%	7.00%
Municipal bond rate – 2017	3.58%	3.58%	3.58%
Discount rate – 2017	5.00%	6.14%	4.25%
Experience study dates	7/1/2011-6/30/2014	7/1/2010-6/30/2013	7/1/2012-6/30/2015

For the June 30, 2018 measurement date, PERS pre-retirement mortality rates were based on the RP-2000 Employee Pre-retirement Mortality Tables for male and female active participants (set back four years for males and females). In addition, the tables provide for future improvements in mortality from the base year of 2013 using a generational approach based on the Conduent modified 2014 projection scale. Post-retirement mortality rates were based on the RP-2000 Combined Healthy Male and Female Mortality Tables (set back one year for males and females) for service retirements and beneficiaries of former members. In addition, the tables for service retirements and beneficiaries of former members provide for future improvements in mortality from 2012 to 2013 using Projection Scale AA and using a generational approach based on the Conduent 2014 projection scale thereafter. Disability retirement rates used to value disabled retirees were based on the RP-2000 Disabled Mortality Table (set back three years for males and set forward one year for females).

For the June 30, 2018 measurement date, PFRS pre-retirement mortality rates were based on the RP-2000 Combined Healthy Mortality Tables projected on a generational basis from the base year of 2000 to 2013 using Projection Scale BB and the Conduent modified 2014 projection plan thereafter. For pre-retirement accidental mortality, a custom table with representative rates was

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used and there is no mortality improvement assumed. Post-retirement mortality rates for male service retirements and beneficiaries are based on RP-2000 Combined Healthy Mortality Tables projected on a generational basis using Projection Scale AA from the base year of 2012 to 2013 and the Conduent modified 2014 projection scale thereafter. Post-retirement mortality rates for female service retirements and beneficiaries were based on the RP-2000 Combined Healthy Mortality Tables projected on a generational basis from the base year of 2000 to 2013 using Projection Scale BB and the Conduent modified 2014 projection scales thereafter. Disability mortality rates were based on a custom table with representative rates and no mortality improvement assumed.

For the June 30, 2018 measurement date, TPAF pre-retirement mortality rates were based on the RP-2006 Employee White Collar Mortality Tables, set back three years for males and five years for females, projected on a generational basis from the base year of 2006 using a 60-year average of improvement rates based on Social Security data from 1953 to 2013. Post-retirement mortality rates were based on the RP-2006 Healthy Annuitant White Collar Mortality Tables, with adjustments as described in the latest experience study, projected on a generational basis from a base year of 2006 using a 60-year average of improvement rates based on Social Security data from 1953 to 2013. Disability mortality rates were based on the RP-2006 Disabled Retiree Mortality Tables with rates adjusted by 90%. No mortality improvement is assumed for disabled retiree mortality.

For the June 30, 2017 measurement date, PERS pre-retirement mortality rates were based on the RP-2000 Employee Pre-retirement Mortality Tables for male and female active participants (set back four years for males and females). In addition, the tables provide for future improvements in mortality from the base year of 2013 using a generational approach based on the plan actuary's modified MP-2014 projection scale. Post-retirement mortality rates were based on the RP-2000 Combined Healthy Male and Female Tables (set back one year for males and females) for service retirements and beneficiaries of former members and a one-year static projection based on mortality improvement Scale AA. In addition, the tables for service retirements and beneficiaries of former members provide for future improvements in mortality from the base year of 2013 using a generational approach based on the plan actuary's modified MP-2014 projection scale. Disability retirement rates used to value disabled retirees were based on the RP-2000 Disabled Mortality Table (set back three years for males and set forward one year for females).

For the June 30, 2017 measurement date, PFRS pre-retirement mortality rates were based on the RP-2000 Pre-retirement Mortality Tables projected thirteen years using Projection Scale BB and then projected on a generational basis using the plan actuary's modified 2014 projection scales. Post-retirement mortality rates for male service retirements and beneficiaries are based on the RP-2000 Combined Healthy Mortality Tables projected one year using Projection Scale AA and three years for 2017 and two years for 2016 using the plan actuary's modified 2014 projection scales, which was further projected on a generational basis using the plan actuary's modified 2014 projection scales. Post-retirement mortality rates for female service retirements and beneficiaries were based on the RP-2000 Combined Healthy Mortality Tables projected thirteen years using Projection Scale BB and then three years for 2017 and two years for 2016 using the plan actuary's modified 2014 projection scales, which was further projected on a generational basis using the plan actuary's modified 2014 projection scales. Disability mortality tables were based on special mortality tables used for the period after disability retirement.

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For the June 30, 2017 measurement date, TPAF pre-retirement, post-retirement and disability mortality rates were based on the experience of TPAF members reflecting mortality improvement on a generational basis based on a 60-year average of Social Security data from 1953 to 2013.

### *Discount Rate*

The discount rates in the above tables used to measure the total pension liabilities for PERS, PFRS, and TPAF, respectively, are single blended discount rates based on the long-term expected rate of return on pension plan investments and the municipal bond rates specified in the tables. The municipal bond rate is based on the Bond Buyer GO 20-Bond Municipal Bond Index, which includes tax-exempt general obligation municipal bonds with an average rate of AA/Aa or higher.

For the June 30, 2018 measurement date, the projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and that contributions from employers will be made based on the contribution rate in the most recent fiscal year. The State contributed 50% of the actuarially determined contributions. Based upon those assumptions, each plan's fiduciary net position was projected to be available to make projected future benefit payments of current plan members through 2046, 2062, and 2040 for PERS, PFRS, and TPAF, respectively. Therefore, the long-term expected rate of return on plan investments was applied to projected benefit payments through 2046, 2062, and 2040 for PERS, PFRS, and TPAF, respectively, and the municipal bond rate was applied to projected benefit payments after these dates in determining the total pension liability for each plan.

For the June 30, 2017 measurement date, the projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and that contributions from employers will be made based on the contribution rate in the most recent fiscal year. The State contributed 40% of the actuarially determined contributions. Based upon those assumptions, each plan's fiduciary net position was projected to be available to make projected future benefit payments of current plan members through 2040, 2057, and 2036 for PERS, PFRS, and TPAF, respectively. Therefore, the long-term expected rate of return on plan investments was applied to projected benefit payments through 2040, 2057, and 2036 for PERS, PFRS, and TPAF, respectively, and the municipal bond rate was applied to projected benefit payments after these dates in determining the total pension liability for each plan.

### *Long-Term Expected Rate of Return*

The long-term expected rate of return on plan investments is determined by the State Treasurer, after consultation with the Directors of the Division of Investments and the Division of Pensions and Benefits, each pension plan's board of trustees, and the actuaries. Best estimates of real rates of return for each major asset class included in each of PERS, PFRS, and TPAF's target asset allocations as of June 30, 2019 and 2018 are as follows:

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Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Risk mitigation strategies	5.00%	5.51%
Buyouts/venture capital	8.25%	13.08%
Cash equivalents	5.50%	1.00%
Credit oriented hedge funds	1.00%	6.60%
Debt related private equity	2.00%	10.63%
Debt related real estate	1.00%	6.61%
Emerging markets equity	6.50%	11.64%
Equity related real estate	6.25%	9.23%
Global diversified credit	5.00%	7.10%
Investment grade credit	10.00%	3.78%
Non-U.S. developed markets equity	11.50%	9.00%
High yield	2.50%	6.82%
Private real asset	2.50%	11.83%
U.S. equity	30.00%	8.19%
U.S. Treasuries	3.00%	1.87%

*Discount Rate Sensitivity*

NJIT's proportionate share of the net pension liability as of June 30, 2018 and 2017, calculated using the respective discount rate, as well as what NJIT's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1% lower or 1% higher than the current rate are as follows:

	June 30, 2019			
	PERS		PFRS	
	Rate	Amount	Rate	Amount
1% decrease	4.66%	\$ 143,922	5.51%	\$ 27,238
Current discount rate	5.66%	124,450	6.51%	23,166
1% increase	6.66%	108,138	7.51%	19,983

  

	June 30, 2018			
	PERS		PFRS	
	Rate	Amount	Rate	Amount
1% decrease	4.00%	\$ 151,593	5.14%	\$ 26,840
Current discount rate	5.00%	130,378	6.14%	22,679
1% increase	6.00%	112,758	7.14%	19,268

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*Defined Contribution Pension Plans*

*Alternate Benefits Program*

The Alternate Benefit Program (ABP) is a defined contribution retirement program administered by the Division for eligible full-time employees in accordance with N.J.S.A. 52:18A.

Membership is mandatory for eligible employees. ABP provides retirement benefits, life insurance, and long-term disability coverage. Employee contributions are immediately vested and non-forfeitable. Employer contributions vest after one year of service and become non-forfeitable. Disability benefits vest after one year of service, life insurance benefits vest after ten years of service, and health care benefits vest after 25 years of service. Benefits are determined by the amount of individuals' account accumulations and the retirement income option selected.

The current employee contribution rate is 5% of base salary. Employees may contribute a voluntary additional contribution up to the maximum Federal statutory limit, on a pre-tax basis. Employer contributions are 8% of base salary up to \$175. For the fiscal years ended June 30, 2019 and 2018, NJIT's contributions to ABP were \$8,597 and \$7,707, respectively.

*New Jersey Institute of Technology Supplemental Benefit Program and Trust*

The Supplemental Program is a defined contribution plan administered by TIAA and governed by NJIT's Board of Trustees for ABP participants whose base salary is in excess of \$175, but not in excess of the Federal limit. All plan assets are held in trust. Employer contributions vest after one year of service and become non-forfeitable.

Employer contributions are at the discretion of NJIT, while employees may not contribute. NJIT's contributions were \$340 and \$735 in fiscal years 2019 and 2018, respectively.

*NJII SEP IRA and 401(k) Plans*

Employees eligible to participate in the NJII 401(k) Plan are able to contribute up to 5% of base salary, with an employer safe harbor matching contribution equal to 160% of the elective deferral that does not exceed the 5% of base compensation. The NJII 401(k) Plan is administered by Principal Life Insurance Company. Employee contributions and employer safe harbor contributions and earnings are immediately 100% vested. NJII's contributions to the NJII 401(k) Plan were \$553 and \$481 in fiscal years 2019 and 2018, respectively.

**9. Other Postemployment Benefits**

NJIT's retirees participate in the State Health Benefit State Retired Employees Plan (the Plan).

The Plan is a single-employer defined benefit other postemployment benefits (OPEB) plan, which provides medical, prescription drug, and Medicare Part B reimbursements to retirees and their covered dependents. Although the Plan is a single-employer plan, it is treated as a cost-sharing multiple employer plan for standalone reporting purposes. In accordance with N.J.S.A. 52:14-17.32, the State is required to pay the premiums and periodic charges for OPEB of State

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employees who retire with 25 years or more of credited service, or on a disability pension, from one or more of the following pension plans: PERS, ABP, or PFRS. In addition, N.J.S.A. 52-14-17.26 provides that for purposes of the Plan, an employee of NJIT shall be deemed to be an employee of the State. As such, the State is legally obligated for the benefit payments on behalf of the retirees of NJIT; therefore, the Plan meets the definition of a special funding situation as defined in GASB 75.

Retirees who are not eligible for employer-paid health coverage at retirement can continue in the program by paying the cost of the insurance for themselves and their covered dependents. Pursuant to Chapter 78, P.L. 2011, future retirees eligible for postretirement medical coverage, who have less than 20 years of creditable service on June 28, 2011, will be required to pay a percentage of the cost of their healthcare coverage in retirement provided they retire with 25 years or more of pension service credit. The percentage of the premium for which the retiree will be responsible for will be determined based on the retiree's annual retirement benefit and level of coverage.

The Plan is administered on a pay-as-you-go-basis. Accordingly, no assets are accumulated in a qualifying trust that meets the definition of a trust as per GASB 75.

### *Total OPEB liability and OPEB expense*

At June 30, 2019 and 2018, the State recorded a liability for NJIT, which represents the portion of the State's total proportionate share of the collective total OPEB liability that is associated with NJIT (NJIT's share). NJIT's share was based on the ratio of its members to the total members of the Plan. As the State is legally obligated for benefit payments on behalf of NJIT, NJIT recognized revenue related to the support provided by the State as well as OPEB expense.

NJIT's share of the State liability, special funding situation, and the Plan as well as NJIT's OPEB revenue and expense as of June 30, 2019 and 2018 are as follows:

	<u>2019</u>	<u>2018</u>
NJIT's share of State liability	\$ 248,332	\$ 296,057
NJIT's share of special funding situation	3.475%	3.620%
NJIT's share of the Plan	1.052%	1.053%
NJIT's OPEB revenue and expense	\$ 11,386	\$ 17,417

### *Actuarial assumptions and other inputs*

The State's liability associated with NJIT at June 30, 2019 was determined by an actuarial valuation as of June 30, 2017, which was rolled forward to the measurement date of June 30, 2018. The State's liability associated with NJIT at June 30, 2018 was determined by an actuarial

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valuation as of June 30, 2016, which was rolled forward to the measurement date of June 30, 2017. The following actuarial assumptions were utilized:

	<u>2019</u>	<u>2018</u>
Inflation rate	2.50%	2.50%
Salary increases:		
Through 2026	1.55% - 8.98%	1.55% - 8.98%
Thereafter	2.00% - 9.98%	2.00% - 9.98%
Discount rate	3.87%	3.58%

The discount rate was based on the Bond Buyer GO 20-Bond Municipal Bond Index, which includes tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher. Salary increases depend on the pension plan a member is enrolled in. In addition, they are based on age or years of service.

Mortality rates were based on the RP-2006 tables for the June 30, 2018 measurement date and the RP-2014 tables for the June 30, 2017 measurement date. Preretirement mortality rates were based on the Headcount-Weighted Healthy Employee Male/Female mortality table with fully generational mortality improvement projections from the central year using the MP-2017 scale. Postretirement mortality rates were based on the Headcount-Weighted Healthy Annuitant Male/Female mortality table with fully generational improvement projections from the central year using the MP-2017 scale. Disability mortality was based on the Headcount-Weighted Disabled Male/Female mortality table with fully generational improvement projections from the central year using the MP-2017 scale.

Certain actuarial assumptions used in both the June 30, 2017 and June 30, 2016 valuations were based on the results of actuarial experience studies of the State's defined benefit plans, including PERS (July 1, 2011 through June 30, 2014), ABP (using the experience of the TPAF – July 1, 2012 through June 30, 2015), and PFRS (July 1, 2010 through June 30, 2013).

*Health Care Trend Assumptions* - For pre-Medicare preferred provider organization (PPO) and health maintenance organization (HMO) medical benefits, the trend rate is initially 5.8% and decreases to a 5.0% long-term trend rate after eight years for the June 30, 2018 measurement date and is initially 5.9% and decreases to a 5.0% long-term trend rate after nine years for the June 30, 2017 measurement date. For self-insured post-65 PPO and HMO medical benefits, the trend rate is 4.5% for both measurement dates. For prescription drug benefits, the initial trend rate is 8% decreasing to a 5.0% long-term trend rate after seven years for the June 30, 2018 measurement date and is initially 10.5% decreasing to a 5.0% long-term trend rate after eight years for the June 30, 2017 measurement date. For both measurement dates, the Medicare Part B reimbursement trend rate is 5.0%; the Medicare Advantage trend rate is 4.5% and will continue in all future years.

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**10. Investment Income**

Investment income is comprised of the following for the fiscal years ended June 30:

	<b>2019</b>	<b>2018</b>
Interest and dividends	\$ 6,398	\$ 5,087
Realized net gain on sale of investments	1,538	9,706
Net increase (decrease) in the fair value of investments	4,150	(2,636)
	<u>\$ 12,086</u>	<u>\$ 12,157</u>

Investment income of \$227 was capitalized in fiscal year 2018.

**11. Condensed Combining Financial Statement Information**

The condensed combining statements of net position, of revenues, expenses, and changes in net position, and of cash flows for NJIT, the Foundation, NJII, and the UREs at June 30, 2019 and for the year then ended are as follows:

	<b>At June 30, 2019</b>					
	<b>NJIT</b>	<b>Foundation</b>	<b>NJII</b>	<b>UREs</b>	<b>Reclassifications / Eliminations</b>	<b>Combined</b>
Cash and cash equivalents	\$ 88,428	\$ 2,527	\$ 208	\$ 2	\$ (2,529)	\$ 88,636
Other current assets	83,113	3,532	3,651	33	-	90,329
Due from NJIT	-	136	-	-	(136)	-
Due from NJII	582	-	-	-	(582)	-
Capital Assets, net	502,328	-	1,874	20,904	-	525,106
Other noncurrent assets	22,438	127,476	-	-	-	149,914
Investment in UREs	20,925	-	-	-	(20,925)	-
Total assets	<u>717,814</u>	<u>133,671</u>	<u>5,733</u>	<u>20,939</u>	<u>(24,172)</u>	<u>853,985</u>
Deferred outflows of resources	36,956	-	-	-	-	36,956
Due to NJIT	-	-	582	-	(582)	-
Due to Foundation	2,663	-	-	-	(2,663)	-
Other current liabilities	65,134	103	4,006	14	(2)	69,255
Noncurrent liabilities	506,051	550	-	-	-	506,601
Total liabilities	<u>573,848</u>	<u>653</u>	<u>4,588</u>	<u>14</u>	<u>(3,247)</u>	<u>575,856</u>
Deferred inflows of resources	30,815	1,125	-	-	-	31,940
Net investment in capital assets	164,698	-	1,033	20,904	-	186,635
Restricted nonexpendable	-	83,012	-	-	-	83,012
Restricted expendable	15,366	24,502	5	-	-	39,873
Unrestricted	(29,957)	24,379	107	21	(20,925)	(26,375)
Total net position	<u>\$ 150,107</u>	<u>\$ 131,893</u>	<u>\$ 1,145</u>	<u>\$ 20,925</u>	<u>\$ (20,925)</u>	<u>\$ 283,145</u>

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	<b>For the Year Ended June 30, 2019</b>					
	<b>NJIT</b>	<b>Foundation</b>	<b>NJII</b>	<b>UREs</b>	<b>Reclassifications / Eliminations</b>	<b>Combined</b>
Gifts and bequests	\$ -	\$ 10,802	\$ 32	\$ -	\$ (10,834)	\$ -
Other operating revenues	280,984	2,783	25,085	1,647	(13,859)	296,640
Total operating revenues	280,984	13,585	25,117	1,647	(24,693)	296,640
Depreciation	34,206	-	58	902	-	35,166
Grants to NJIT	-	9,326	-	-	(9,326)	-
Grants to NJII	-	120	-	-	(120)	-
Grants to NJIT student fraternities	-	56	-	-	(56)	-
Other operating expenses	364,222	3,276	26,276	1,960	(13,692)	382,042
Total operating expenses	398,428	12,778	26,334	2,862	(23,194)	417,208
Operating (loss) profit	(117,444)	807	(1,217)	(1,215)	(1,499)	(120,568)
Gifts and bequests	9,247	-	-	-	(2,101)	7,146
Investment income	5,920	6,144	-	-	22	12,086
Other non-operating revenues, net	94,577	19	-	-	4,631	99,227
Capital grants and gifts	-	-	-	320	(158)	162
Additions to permanent endowments	-	5,261	-	-	-	5,261
Increase (decrease) in net position	(7,700)	12,231	(1,217)	(895)	895	3,314
Net position, beginning of year	157,807	119,662	2,362	21,820	(21,820)	279,831
Net position, end of year	\$ 150,107	\$ 131,893	\$ 1,145	\$ 20,925	\$ (20,925)	\$ 283,145

	<b>For the Year Ended June 30, 2019</b>					
	<b>NJIT</b>	<b>Foundation</b>	<b>NJII</b>	<b>UREs</b>	<b>Reclassifications / Eliminations</b>	<b>Combined</b>
Net cash provided (used) by:						
Operating activities	\$ (3,549)	\$ (1,862)	\$ 517	\$ (320)	\$ (21,132)	\$ (26,346)
Noncapital financing activities	50,758	4,986	-	320	21,070	77,134
Capital financing activities	(39,998)	-	(750)	-	29	(40,719)
Investing activities	68,181	(3,113)	-	-	22	65,090
Net increase (decrease) in cash and cash equivalents	75,392	11	(233)	-	(11)	75,159
Cash and cash equivalents, beginning of year	13,036	2,516	441	2	(2,518)	13,477
Cash and cash equivalents, end of year	\$ 88,428	\$ 2,527	\$ 208	\$ 2	\$ (2,529)	\$ 88,636

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Notes to Financial Statements**  
**(Dollars in thousands)**  
**June 30, 2019 and 2018**

The condensed combining statements of net position, of revenues, expenses, and changes in net position, and of cash flows for NJIT, the Foundation, NJII, and the UREs at June 30, 2018, as restated, and for the year then ended are as follows:

	At June 30, 2018					
	NJIT	Foundation	NJII	UREs	Reclassifications / Eliminations	Combined
Cash and cash equivalents	\$ 13,036	\$ 2,516	\$ 441	\$ 2	\$ (2,518)	\$ 13,477
Other current assets	152,627	634	2,221	24	(2)	155,504
Due from NJIT	-	-	3,220	-	(3,220)	-
Capital assets, net	497,909	-	510	21,805	-	520,224
Other noncurrent assets	44,555	118,139	-	-	-	162,694
Investment in UREs	21,820	-	-	-	(21,820)	-
Total assets	<u>729,947</u>	<u>121,289</u>	<u>6,392</u>	<u>21,831</u>	<u>(27,560)</u>	<u>851,899</u>
Deferred outflows of resources	41,804	-	-	-	-	41,804
Due to NJII	3,220	-	-	-	(3,220)	-
Due to Foundation	2,408	108	-	-	(2,516)	-
Other current liabilities	68,761	187	4,030	11	(4)	72,985
Noncurrent liabilities	516,487	582	-	-	-	517,069
Total liabilities	<u>590,876</u>	<u>877</u>	<u>4,030</u>	<u>11</u>	<u>(5,740)</u>	<u>590,054</u>
Deferred inflows of resources	23,068	750	-	-	-	23,818
Net investment in capital assets	153,992	-	510	21,805	-	176,307
Restricted nonexpendable	-	77,528	-	-	-	77,528
Restricted expendable	23,980	21,391	5	-	-	45,376
Unrestricted	(20,165)	20,743	1,847	15	(21,820)	(19,380)
Total net position	<u>\$ 157,807</u>	<u>\$ 119,662</u>	<u>\$ 2,362</u>	<u>\$ 21,820</u>	<u>\$ (21,820)</u>	<u>\$ 279,831</u>

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Notes to Financial Statements**  
**(Dollars in thousands)**  
**June 30, 2019 and 2018**

	<b>For the Year Ended June 30, 2018</b>					
	<b>NJIT</b>	<b>Foundation</b>	<b>NJII</b>	<b>UREs</b>	<b>Reclassifications / Eliminations</b>	<b>Combined</b>
Gifts and bequests	\$ -	\$ 7,604	\$ 21	\$ -	\$ (7,625)	\$ -
Grants from Foundation	7,830	-	-	-	(7,830)	-
Other operating revenues	257,020	2,639	25,330	1,593	(1,716)	284,866
Total operating revenues	264,850	10,243	25,351	1,593	(17,171)	284,866
Depreciation	30,130	-	29	914	-	31,073
Grants to NJIT	-	8,879	-	-	(8,879)	-
Grants to NJII	-	215	-	-	(215)	-
Grants to NJIT student fraternities	-	100	-	-	(100)	-
Other operating expenses	368,432	2,992	23,812	1,950	(9,340)	387,846
Total operating expenses	398,562	12,186	23,841	2,864	(18,534)	418,919
Operating (loss) profit	(133,712)	(1,943)	1,510	(1,271)	1,363	(134,053)
Gifts and bequests	-	-	-	-	4,792	4,792
Investment income	3,672	8,472	-	-	13	12,157
Other non-operating revenues, net	119,200	37	-	5	(5,550)	113,692
Capital grants and gifts	-	-	-	366	282	648
Additions to permanent endowments	-	2,298	-	-	-	2,298
(Decrease) increase in net position	(10,840)	8,864	1,510	(900)	900	(466)
Net position, beginning of year	168,647	110,798	852	22,720	(22,720)	280,297
Net position, end of year	\$ 157,807	\$ 119,662	\$ 2,362	\$ 21,820	\$ (21,820)	\$ 279,831

	<b>For the Year Ended June 30, 2018</b>					
	<b>NJIT</b>	<b>Foundation</b>	<b>NJII</b>	<b>UREs</b>	<b>Reclassifications / Eliminations</b>	<b>Combined</b>
Net cash provided (used) by:						
Operating activities	\$ (21,954)	\$ (6,025)	\$ 312	\$ (370)	\$ (8,358)	\$ (36,395)
Noncapital financing activities	56,942	1,880	-	370	7,659	66,851
Capital financing activities	(45,424)	-	(224)	-	39	(45,609)
Investing activities	2,783	4,792	-	-	13	7,588
Net (decrease) increase in cash and cash equivalents	(7,653)	647	88	-	(647)	(7,565)
Cash and cash equivalents, beginning of year	20,689	1,869	353	2	(1,871)	21,042
Cash and cash equivalents, end of year	\$ 13,036	\$ 2,516	\$ 441	\$ 2	\$ (2,518)	\$ 13,477

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Notes to Financial Statements**  
**(Dollars in thousands)**  
**June 30, 2019 and 2018**

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**12. Net Position**

The components of unrestricted net position are as follows:

	<b>June 30,</b>	
	<b>2019</b>	<b>2018</b>
Designated unrestricted net position:		
Quasi-endowments	\$ 21,739	\$ 18,091
Instructional and other	4,616	4,513
Construction and capital programs	41,098	38,106
Wellness and events center construction	-	11,963
State bonds funds required match	38	92
Debt service	17,710	12,228
Pollution remediation	2,035	2,259
Outstanding purchase orders	4,626	8,558
	<u>91,862</u>	<u>95,810</u>
Undesignated unrestricted net position		
Pension related	(144,828)	(137,953)
Operations	26,591	22,763
	<u>\$ (26,375)</u>	<u>\$ (19,380)</u>

**13. Commitments and Contingencies**

At June 30, 2019, open purchase orders totaled \$45,554, primarily for construction and capital program and research expenditures.

In the normal course of business, the University is subject to various lawsuits and claims. Management believes that the ultimate resolution of these matters will not have a significant effect on the University's financial position.

The University administers Federal and State grants and contracts, reimbursements from which are subject to review and audit by the respective sponsoring agencies. Such audits could result in disallowances and other adjustments. The University believes disallowances, if any, would not significantly affect the accompanying financial statements.

**14. Subsequent Events**

In July 2019, NJIT purchased strategic property adjacent to its campus for a purchase price of \$6,000. In addition, in November 2019, NJIT entered into an agreement for the purchase of an additional strategic property, for a purchase price of \$5,000, with an anticipated closing in late December 2019. The purchase of these strategic properties were/will be funded by the 2017 Series A Bond proceeds.

**Required Supplementary Information**  
(unaudited)

Schedules of Proportionate Share of the  
Net Pension Liability – Last 10 Years

Schedules of Employer  
Contributions – Last 10 Years

Schedules of Proportionate Share of the Total Other  
Postemployment Benefits (OPEB) Liability – Last 10 Years

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Required Supplementary Information (unaudited)**  
**Schedules of Proportionate Share of the Net Pension Liability – Last 10 Years\***  
**(Dollars in thousands)**  
**June 30, 2019**

	<b>2019</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>TPAF</b>
NJIT's proportion of net pension liability	0.525%	0.535%	0.00%
NJIT's proportionate share of net pension liability	\$ 124,450	\$ 23,166	\$ -
NJIT's covered payroll (for the year ended as of the measurement date)	\$ 23,093	\$ 2,249	\$ -
State's proportionate share of the net pension liability attributable to NJIT	N/A	N/A	\$ 1,553
NJIT's proportionate share of the net pension liability as a percentage of its covered payroll	538.91%	1,030.06%	0.00%
Plan fiduciary net position as a percentage of total pension liability	22.11%	25.84%	25.60%
	<b>2018</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>TPAF</b>
NJIT's proportion of net pension liability	0.508%	0.516%	0.00%
NJIT's proportionate share of net pension liability	\$ 130,378	\$ 22,679	\$ -
NJIT's covered payroll (for the year ended as of the measurement date)	\$ 24,911	\$ 2,625	\$ -
State's proportionate share of the net pension liability attributable to NJIT	N/A	N/A	\$ 1,754
NJIT's proportionate share of the net pension liability as a percentage of its covered payroll	523.38%	863.96%	0.00%
Plan fiduciary net position as a percentage of total pension liability	21.18%	25.99%	25.41%
	<b>2017</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>TPAF</b>
NJIT's proportion of net pension liability	0.473%	0.498%	0.00%
NJIT's proportionate share of net pension liability	\$ 138,898	\$ 23,455	\$ -
NJIT's covered payroll (for the year ended as of the measurement date)	\$ 24,111	\$ 2,654	\$ -
State's proportionate share of the net pension liability attributable to NJIT	N/A	N/A	\$ 2,068
NJIT's proportionate share of the net pension liability as a percentage of its covered payroll	576.08%	883.76%	0.00%
Plan fiduciary net position as a percentage of total pension liability	19.02%	24.70%	22.33%
	<b>2016</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>TPAF</b>
NJIT's proportion of net pension liability	0.476%	0.535%	0.00%
NJIT's proportionate share of net pension liability	\$ 113,033	\$ 22,966	\$ -
NJIT's covered payroll (for the year ended as of the measurement date)	\$ 24,038	\$ 2,391	\$ -
State's proportionate share of the net pension liability attributable to NJIT	N/A	N/A	\$ 7,578
NJIT's proportionate share of the net pension liability as a percentage of its covered payroll	470.23%	960.52%	0.00%
Plan fiduciary net position as a percentage of total pension liability	24.96%	29.07%	28.71%
	<b>2015</b>		
	<b>PERS</b>	<b>PFRS</b>	<b>TPAF</b>
NJIT's proportion of net liability	0.455%	0.509%	0.00%
NJIT's proportionate share of net pension liability	\$ 91,665	\$ 18,071	\$ -
NJIT's covered payroll (for the year ended as of the measurement date)	\$ 23,781	\$ 2,249	\$ -
State's proportionate share of the net pension liability attributable to NJIT	N/A	N/A	\$ 8,415
NJIT's proportionate share of the net pension liability as a percentage of its covered payroll	385.45%	803.51%	0.00%
Plan fiduciary net position as a percentage of total pension liability	30.06%	34.70%	33.64%

\* This schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Required Supplementary Information (unaudited)**  
**Schedules of Employer Contributions – Last 10 Years\***  
**(Dollars in thousands)**  
**June 30, 2019**

	2019	
	PERS	PFRS
Contractually required contribution	\$ 4,025	\$ 1,460
Contributions in relation to the contractually required contribution	4,025	1,460
Contribution deficiency (excess)	\$ -	\$ -
NJIT's covered payroll (as of fiscal year end)	\$ 22,517	\$ 2,502
Contributions as a percentage of covered payroll	17.88%	58.35%
	2018	
	PERS	PFRS
Contractually required contribution	\$ 3,280	\$ 1,266
Contributions in relation to the contractually required contribution	3,280	1,266
Contribution deficiency (excess)	\$ -	\$ -
NJIT's covered payroll (as of fiscal year end)	\$ 23,093	\$ 2,249
Contributions as a percentage of covered payroll	14.20%	56.29%
	2017	
	PERS	PFRS
Contractually required contribution	\$ 4,327	\$ 881
Contributions in relation to the contractually required contribution	4,327	881
Contribution deficiency (excess)	\$ -	\$ -
NJIT's covered payroll (as of fiscal year end)	\$ 24,911	\$ 2,625
Contributions as a percentage of covered payroll	17.37%	33.56%
	2016	
	PERS	PFRS
Contractually required contribution	\$ 2,836	\$ 551
Contributions in relation to the contractually required contribution	2,836	551
Contribution deficiency (excess)	\$ -	\$ -
NJIT's covered payroll (as of fiscal year end)	\$ 24,111	\$ 2,654
Contributions as a percentage of covered payroll	11.76%	20.76%
	2015	
	PERS	PFRS
Contractually required contribution	\$ 736	\$ 545
Contributions in relation to the contractually required contribution	736	545
Contribution deficiency (excess)	\$ -	\$ -
NJIT's covered payroll (as of fiscal year end)	\$ 24,038	\$ 2,391
Contributions as a percentage of covered payroll	3.06%	22.79%

\* This schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Required Supplementary Information (unaudited)**  
**Schedules of Proportionate Share of the Total Other Postemployment Benefits**  
**(OPEB) Liability – Last 10 Years\***  
**(Dollars in thousands)**  
**June 30, 2019**

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	<u>2019</u>
NJIT's proportion of the total OPEB liability	0.00%
NJIT's proportionate share of the total OPEB liability	\$ -
State of New Jersey's proportionate share of the total OPEB liability attributable to NJIT	<u>248,332</u>
Total OPEB liability	\$ 248,332
NJIT's covered payroll (for the year ended as of the measurement date)	\$ 125,094
NJIT's proportionate share of the collective total OPEB liability as a percentage of its covered payroll	0.00%
	<u>2018</u>
NJIT's proportion of the total OPEB liability	0.00%
NJIT's proportionate share of the total OPEB liability	\$ -
State of New Jersey's proportionate share of the total OPEB liability attributable to NJIT	<u>296,057</u>
Total OPEB liability	\$ 296,057
NJIT's covered payroll (for the year ended as of the measurement date)	\$ 121,298
NJIT's proportionate share of the collective total OPEB liability as a percentage of its covered payroll	0.00%

*\* This schedule is intended to show information for 10 years. Additional years will be displayed as they become available.*

NEW JERSEY INSTITUTE OF TECHNOLOGY

Schedule of Expenditures of Federal Awards

For the year ended June 30, 2019

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Federal CFDA Number	Pass-Through Entity	Award Number	Current Year Expenditures	Subrecipient's Share of Total Expenditures	Noncash
Research and Development Cluster:						
U.S. Department of Agriculture:						
Repositioning Empty Containers for Agricultural Container Logistics	10.167		16-TMTSD-NJ-0008	\$ 26,753	\$ -	\$ -
Integrating Modeling and Field Experiments to Guide Weed Management in Rangeland Systems	10.RD	The State of Kansas	20166701324930/WSU#15866	5,803	-	-
Risk-Averse Surveillance and Intervention Planning for Emerald Ash Borer in Community Forests	10.RD		18-JV-11242309-050	19,496	-	-
Total U.S. Department of Agriculture				52,052	-	-
U.S. Department of Commerce:						
At Risk: Healthy Coastal Ecosystem and Resilient Communities & Economies in an Era of Climate Change: A Balanced Approach to Protecting People, Property and Nature in Historic Greenwich Township, NJ						
Synthesis on the Feasibility of Bioremediation for Enhancing Biodegradation of Linger Exxon Valdez Oil in Prince William Sound Beaches	11.417	New Jersey Sea Grant Consortium	NA14OAR4170085/6610-0008	42,091	25,690	-
	11.419	Monmouth University	NA17NOS4190150/TO DT 11-02-18	12,000	-	-
Total U.S. Department of Commerce				54,091	25,690	-
U.S. Department of the Navy:						
Capstone Project Program	12.300		AWARD LETTER	1,484	-	-
Fundamental Understanding of the Mechanism of Cavitation, One of Possible Mechanisms of Blast-Induced Traumatic Brain Injury using Surrogate Models						
	12.300		N00014-15-1-2637	33,748	-	-
Dynamic Mechanical Tester for Piezoelectric Biomaterial Characterization	12.300		N00014-17-1-2325	23,254	-	-
Geoacoustic Inversion in Shallow Water	12.300		N00014-18-1-2125	59,312	-	-
Mechanics of Binder-Particle Interaction in Composite Battery Electrodes	12.300		N00014-17-1-2345	72,808	-	-
Reactive Fluorinated composites for advanced energetic systems	12.300		N00014-19-1-2048	2,022	-	-
Shallow Water Inversion with Optimization and Direct Methods	12.300		N00014-16-1-2485	117,555	-	-
A Novel Polarization Controlled Beam Steering Device	12.UNK	Fontus Applied Technologies	N68335-17-C-0470	47,096	-	-
A Novel Polarization Controlled Beam Steering Device, Navy STTR Phase II Project	12.UNK	Fontus Applied Technologies	N68335-18-C-0669	15,259	-	-
Innovative Physics-Based Modeling Tool for Application to Passive Radio Frequency Identification System on Rotorcraft	12.UNK	Solutions, Inc.	N68335-17-C-0192	138,788	-	-
Human-AI Symbiosis for Agile Planning	12.UNK	University of Connecticut	SUB 316317	28,147	-	-
Total U.S. Department of the Navy				539,473	-	-
U.S. Department of Defense:						
Combustion of Reactive Materials in Gas Flows with Turbulent Mixing						
	12.351		HDTRA1-14-1-0024	27,667	-	-
Reactive Materials with Staged Release of Energy and Biocidal Products	12.351		HDTRA1-15-1-0024	316,162	181,314	-
Novel Membrane-Based Fabrics and Materials for Chemical and Biological Protection	12.351		HDTRA1-16-1-0028	168,216	53,788	-
A Combination Tissue Engineering Strategy for Schwann Cell-Induced Spinal Cord Repair	12.420		W81XWH-14-1-0482	32,101	13,871	-
Mechanochemical Nitration of Organic Compounds	12.RD		W912HQ19P0007	9,381	-	-
Mechanochemical Preparation of Organic Nitro Compounds	12.RD		W912HQ-17-P-0009	7,627	-	-
Aircrew Physiologic Status Monitoring	12.RD	Drexel University	N68335-16-C-0085/SUB #860256	82,287	-	-
Surrogate Prototyping and Experiments for Traumatic Brain Injury (TBI)						
	12.RD	Company, LLC	DOTC-17-1-INIT00860TA 2014-322	221,954	-	-
Total U.S. Department of Defense				865,395	248,973	-
U.S. Defense Threat Reduction Agency:						
Validated Particle Agglomeration Models for Fireball Plasma and Fallout Products	12.351	University of Illinois	HDTRA1-17-1-0044	180,197	-	-
Total U.S. Defense Threat Reduction Agency				180,197	-	-
U.S. Department of the Army:						
High Definition Transcranial Direct Current Stimulation (HD-tDCS) for Sensory Deficits in Complex Traumatic Brain Injury						
	12.420	University of New Mexico	W81XWH-17-1-0432 / 3RDF2	4,136	-	-
Characterization of the mechanisms causing blast-induced brain injury	12.420	The Henry M. Jackson Foundation	W81XWH1402134/PO#825730	(1,286)	-	-
Primary Blast Injury Criteria for Animal/Human TBI Models Using Field Validated Shock Tubes	12.420		W81XWH-15-1-0303	895,793	-	-
2018 Research & Engineering Apprenticeship Program	12.431	Academy of Applied Science	AWARD LETTER	1,957	-	-
ARL CRA: MACRO: Models for Continuous Reconfigurability of Secure Missions	12.431	Penn State University	W911NF-13-2-0045/5532-NJIT-ARM	113,485	-	-
DURIP-THz Instrumentation for NDE of Additive Manufacturing	12.431		W911NF1910140	244,950	-	-
Fundamental Understanding of the Mechanism of Blast-Induced Traumatic Brain Injury Using in Vitro Neuronal Models						
	12.431		W911NF-15-2-0128	232,778	-	-
Initial Research Directions: Reliable Authentication in Point-to-Point Channels and Multihop Networks						
	12.431		W911NF-17-2-0208	29,203	-	-
Multisensory Integration by Circadian Clocks	12.431	Northwestern University	W911NF1610584/SP0032863-PROJ00	35,277	-	-
Research & Engineering Apprenticeship Program	12.431	Academy of Applied Science	AWARD LETTER	40	-	-
2019 UNITE Summer Program Site	12.630	Technology Student Association	UNITE LETTER SIGNED 9-27/18	1,566	-	-
UNITE 2018 Program	12.630	Technology Student Association	EMAIL 1/24/18	30,897	-	-
2D and 3D Metamaterial Radar Chaff	12.RD	Advanced Technology International	W15QKN-14-9-1001/DOIC-17-INIT0	166,076	-	-
Advanced Development of Asset Protection Technologies (ADAPT) - Task Order 006	12.RD		W15QKN-17-D-0029/19F0002TO 006	258,798	79,689	-
Advanced Manufacturing for Weapon Systems Standardization and Effectiveness (AMWSSE)	12.RD		W15QKN-17-D-0029/0003	3,238,302	2,501,104	-
Blind Multi-User Detection of Frequency Hopping Spread Spectrum Signals	12.RD	Battelle Memorial Institute	W911NF1D0001/US001-0000719110	85,311	-	-
Development, Integration, Testing & Testing (DITT) of Systems and Processes for Systems & Facilities Optimization						
	12.RD		W15QKN-10-D-0503 / 0013	395,374	95,495	-
HDPE/elastomer Multilayer Forced Assembly Fibers and Films for Ballistic Applications	12.RD	PolymerPlus LLC	RESEARCH AGREEMENT DT 03/30/18	119,006	-	-
Noise Waveforms for next Generation Fuze RADAR	12.RD	Advanced Technology International	W15QKN-14-9-1001	205,213	-	-
Program Obfuscation Advancement with Lattice Implementation for Scalable Application Demonstration of Efficiency (PALISADE)						
	12.RD	Defense Advanced Research Projects Agency (DARPA)	W911NF-15-C-0226/0010704998	949,961	589,470	-
Stacked 2-D Meta-Structures	12.RD	Utility Development Corporation	W15QKN17-C-0128	12,219	-	-
Technology Advancement & Retention Center(TARC)-Modelling & Simulation Validation and Technology Development Effort-Task Order 0004	12.RD		W15QKN-17-D-0029 / 0004	2,043,073	1,643,487	-
Technology Advancement and Retention Center (TARC)-Modeling & Simulation Validation and Technology Development- Task Order 007	12.RD		W15QKN17D0029/W15QKN19F0003-07	340,353	295,091	-
Transformative Manufacturing Enhancements for Munitions and Weapon Systems Standardization & Effectiveness (TMEWSS) Task Order 0005	12.RD		W15QKN-17-D-0029/18F0293TO 005	4,895,030	4,456,421	-
Value Engineering for Enhanced Workforce Development, Training, and Technology Demonstration	12.RD		W15QKN-17-D-0029/0002	832,020	812,433	-
Total U.S. Department of the Army				15,129,532	10,473,190	-
U.S. Department of the Air Force:						
Reactive Materials for Vaporization of Lanthanides						
	12.630	ERC Incorporated	FA9300-15-C-0004/PS170044	49,699	-	-
High Resolution Observations of the Sun with the 1.6 Off-Axis Telescope in Big Bear: Origins of Space Weather						
	12.800		FA9550-19-1-0040	557	-	-
Observations with the 1.6 Meter New Solar Telescope in Big Bear: Origins of Space Weather	12.800		FA9550-15-1-0322	39,998	-	-
Reactive Materials with Burn Rate Adjusted by Initiation Method	12.800		FA9550-16-1-0266	166,787	-	-
B2CSM: Blockchain-Based Cyber Security Management: Design, Analysis, and Prototype Implementation						
	12.910	The University of Texas at San Antonio	SUBAWARDS #1000002707	22,858	-	-
Contested Environment Radio Frequency Exploitation and Research	12.RD	Matrix Research, Inc.	FA8650-14-D-1722	59,349	-	-
Total U.S. Department of the Air Force				339,248	-	-

NEW JERSEY INSTITUTE OF TECHNOLOGY

Schedule of Expenditures of Federal Awards

For the year ended June 30, 2019

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Federal CFDA Number	Pass-Through Entity	Award Number	Current Year Expenditures	Subrecipient's Share of Total Expenditures	Noncash
Research and Development Cluster, continued:						
Defense Advanced Research Projects Agency:						
Aligned Fiber Nerve Conduits for the Selective Extension and Sorting of Axon Growth Following Traumatic Injury, Disease, or Amputation (The SENSE Project)	12.910		S-10563-01	\$ 9,607	\$ -	\$ -
MARSHAL: Modular Adaptive Reuse of Secure and High-Performance Advanced Libraries	12.910		N66001-17-1-4043	160,851	-	-
Quantifying Complex Spatio-Temporal Systems	12.910	Rutgers, The State University of New Jersey	HR0011-16-2-0033/SUB00000008	17,028	-	-
OPERA - Safeware	12.RD	Vencore Inc.	W911NF-15-C-0233 / PO-0004756	225,080	-	-
Stick-Slip Dynamics and Failure in Granular Materials	12.RD	Duke University	W911NF1810184/313-0825	26,734	-	-
Total Defense Advanced Research Projects Agency				439,300	-	-
U.S. Department of Interior:						
Assessment of the Occurrence, Toxicity, and Biotransformation of Disinfection Byproducts of 1,4-Dioxane	15.805	Rutgers, The State University of New Jersey	G16AP00071 / PO 877551	5,156	-	-
Total U.S. Department of Interior				5,156	-	-
U.S. Geological Survey:						
Characterizations and Assessment of Microplastic Interactions with Persistent Organic Pollutants in Surface Waters in New Jersey	15.805	Rutgers, The State University of New Jersey	G16AP00071/PO 877554	5,216	-	-
Marsh Plants-Derived Biochar for Synergistic Decontamination of Dioxins, PCBs, and Mercury in Passaic River	15.805	Rutgers, The State University of New Jersey	G16AP00071 / SUBAWARD 6144	7,532	-	-
Removal of Polyfluoroalkyl Substances and Other Micropollutants Using Spiky Sweetgum Seeds as Renewable Biosorbents to Support "Waste Control by Waste" and Point-of-Use Water Treatment Devices	15.805	Rutgers, The State University of New Jersey	G16AP00071	577	-	-
Total U.S. Geological Survey				13,325	-	-
U.S. Department of Transportation:						
Project Information Management System (PIMS) Hosting, Support and Enhancements Center for Advanced Infrastructure and Transportation (CAIT)	20.205	Research Foundation - CUNY Rutgers, The State University of New Jersey	DTFH61-07-H-00020	107,113	-	-
Region 2 UTC Consortium	20.701	Rutgers, The State University of New Jersey	69A3551847102/SUB NO. 0613	90,074	-	-
Center for Advanced Infrastructure and Transportation National UTC Consortium	20.701	Rutgers, The State University of New Jersey	DTRT13-G-UTC28/5324	54,264	-	-
Task Order No. 693J318F000303: The Long-Term Infrastructure Performance (PTIP) Team	20.RD	Rutgers, The State University of New Jersey	DTFH6117D00001/ SUBAWARD 0732	33,480	-	-
Technical Services Support Contract (TSSC) for the Infrastructure Management Long Term Bridge Performance (LTBP) Program Task Order #1 Data Gap Analysis Requirements	20.RD	Rutgers, The State University of New Jersey	DTFH61-17-D-0001/714825	35,273	-	-
Technical Services Support Contract (TSSC) for the Infrastructure Management Long Term Bridge Performance (LTBP) Program Task Order #2: Bridge Performance Strategic Research Matrices, Protocols Training, Protocols, and Publications	20.RD	Rutgers, The State University of New Jersey	DTFH61-17-D-0001/715557	16,041	-	-
Safety Belt Usage Study 2018	20.600	N.J. Dept. of Law & Public Safety	FED-2018-NJIT-00130	58,069	-	-
Safety Belt Usage Study 2018	20.600	N.J. Dept. of Law & Public Safety	FED-2019-NJIT-00280	41,977	-	-
Intelligent Transportation Systems Resource Center	20.200	N.J. Department of Transportation	TASK ORDER 115	373,708	90,650	-
NJTPA FY16 Admin	20.205	N.J. Department of Transportation	PL-NJ-16-01	365,010	365,010	-
NJTPA FY17 Admin	20.205	N.J. Department of Transportation	PL-NJ-17-01	1,068,293	1,062,416	-
NJTPA FY17 LSEAP	20.205	N.J. Department of Transportation	PL-NJ-17-06	38,193	38,193	-
		N.J. Department of Transportation	PL-NJ-17-07	56,602	56,602	-
		N.J. Department of Transportation	PL-NJ-17-08	68,830	68,830	-
		N.J. Department of Transportation	PL-NJ-17-09	12,438	12,438	-
		N.J. Department of Transportation	PL-NJ-17-10	96,283	96,283	-
		N.J. Department of Transportation	PL-NJ-17-11	79,236	79,236	-
		N.J. Department of Transportation	PL-NJ-17-12	26,525	26,525	-
		N.J. Department of Transportation	PL-NJ-17-13	71,469	71,469	-
		N.J. Department of Transportation	PL-NJ-17-14	59,920	59,920	-
		N.J. Department of Transportation	PL-NJ-17-15	95,818	95,818	-
		N.J. Department of Transportation	PL-NJ-17-16	54,968	54,968	-
		N.J. Department of Transportation	PL-NJ-17-18	241,027	241,027	-
		N.J. Department of Transportation	PL-NJ-17-19	92,609	92,609	-
		N.J. Department of Transportation	PL-NJ-17-20	107,099	107,099	-
		N.J. Department of Transportation	PL-NJ-17-21	191,963	191,963	-
NJTPA FY18 Admin	20.205	N.J. Department of Transportation	PL-NJ-18-01	4,398,696	3,914,929	-
NJTPA FY 2019 Unified Planning	20.205	N.J. Department of Transportation	PL-NJ-19-01	20,130,899	9,006,543	-
Intelligent Transportation Systems Resource Center	20.205	N.J. Department of Transportation	TASK ORDER 115	3,495,353	698,211	-
Total U.S. Department of Transportation				31,561,230	16,430,739	-
National Aeronautics and Space Administration:						
18-HGIO18_2-0001, Exploring Small-Scale Energy Release Phenomena Above and Around Sunspots	43.001		80NSSC19K0257	798	-	-
Analysis of Chromospheric Evaporation from Iris Observations	43.001		NNX16APO5H	45,422	-	-
Data-Driven and Laboratory-Tested MHD Simulations to Understand the Successful and Failed Solar Eruptions	43.001		80NSSC17K0016	299,161	153,854	-
Dynamics of Solar Flares: Combining NASA Space Data with Microwave Imaging Spectroscopy	43.001		80NSSC18K1128	110,496	-	-
Fine Structure and Dynamics of Erupting Magnetic Flux Ropes in Lower Solar Atmosphere	43.001		NNX16AF72G S02	126,212	-	-
Quantification of thermal response driven by electron acceleration in solar flares	43.001		80NSSC18K0667	50,661	-	-
Spatial Distribution of Flare-Accelerated Particles and Their Role as Seed Particles for SEPs	43.001		80NSSC19K0068	64,732	-	-
Study of Structural Properties of Core and Strapping Fields in Relation to Confined and Ejective Solar Eruptions	43.001		80NSSC18K0673	79,504	-	-
Studying the Magnetic Field Structure and Topology of Circular Ribbon Flares	43.001		80NSSC18K1705	17,393	8,430	-
Unsofted, Applying Deep Learning for Early Forecast of Magnetic Flux Emergence	43.001		80NSSC19K0630	13,815	-	-
Van Allen Probes RBSPICE Phase E Operations - Extended Mission I (ARDES)	43.001	The Johns Hopkins University	NASA NNN06AA01C.SUB 131803	1,618,297	933,788	-
Characterization of Sunquake Signatures in Terms of Energy and Momentum and their Relationship with the Flare Impulsive Phase	43.001		NNX14AB68G	29,813	-	-
Computational model of Dynamics & Magnetic Activity of the Sun and Solar-Type Stars	43.001		NNX17AE76A	10,206	-	-
Impulsive Ion Escape at the Sun	43.001		NNX16AL67G	21,534	-	-
Integrated Global-Sun Model of Magnetic Flux Emergence and Transport	43.001		NNX14AB70G	47,726	-	-
Kinetics of Electric Field-Driven Phase Transitions in Polarized Colloids	43.001		NNX13AQ53G	52,575	-	-
Particle Energization in Solar Flares: Combining Observations from a Suite of NASA Missions with the Jansky very Large Array	43.001		NNX17AB82G	207,562	128,756	-
Structure Evolution during Phase Separation in Colloids under Microgravity	43.003		NNX16AQ79G	57,331	-	-
New Jersey Space Grant Consortium Training Grant 2015-2018	43.008	Rutgers, The State University of New Jersey	NNX15AK05H/SUB AWARD 6247	7,142	-	-
Type III Radio Bursts from Nanoflares	43.RD		80NSSC17K0660	49,302	-	-
Total National Aeronautics and Space Administration				2,909,682	1,224,828	-

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Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Federal CFDA Number	Pass-Through Entity	Award Number	Current Year Expenditures	Subrecipient's Share of Total Expenditures	Noncash Assistance
Research and Development Cluster, continued:						
National Science Foundation:						
Collaborative Research: Computationally Efficient Solvers for Power System Simulation	47.041		ECCS-1665422	\$ 9,317	\$ -	\$ -
Collaborative Research: CCSS: Low-Complexity Wireless Sensor Architectures Based on Asynchronous Processing	47.041		ECCS-1407910	118,740	-	-
"CAREER ASSURED" electrochemical platform for multiplexed detection of Cancer Biomarker Panel using Shear-Enhanced Nanoporous-Capacitive Electrodes	47.041		CBET-1751759	53,474	-	-
Collaborative Research: Development of Novel Two-Photon Fluorescence Polymer Probes for High Resolution Deep Tissue Intravital Imaging	47.041		CBET-1517273	48,700	-	-
Collaborative Research: Computations, Modeling and Experiments of Self and Directed Assembly for Nanoscale Liquid Metal Systems	47.041		CBET-1604351	48,912	-	-
Collaborative Research: Optimizing Incentives for Carbon Capture and Storage Systems	47.041		CMMI-1535762	72,317	-	-
MRI-Development of an Open Architecture and Scalable Exoskeleton for Research on the Restoration of Ambulation of Persons with Disabilities	47.041		CBET-1625644	106,103	-	-
CAREER: Damage Evolution in Polymeric Materials undergoing Hydrolysis or Photo-Degradation	47.041		CMMI-1751520	21,430	-	-
CAREER: Electro-chemo-mechanics of polymer/active material interface fracture	47.041		1652409	72,110	-	-
CAREER: Tackling the Solvent-Stabilizer Co-contamination by Propanotrophic Bacteria with Catalytically Versatile Di-iron Monooxygenases	47.041		CBET-1846945	6,218	-	-
Development of Functionalized Nano Carbon Immobilized Membranes for Sea and Brackish Water Desalination	47.041		CBET-1603314	8,949	-	-
Collaborative Research: Silver-Based Colloidal Quantum Dot Devices for Ubiquitous Mid-Wavelength Infrared Sensing	47.041		ECCS-1809112	61,130	-	-
CAREER: Engineered Diseased Myocardial Model for Cell-Based Therapy	47.041		CBET-1653464	104,464	-	-
SusCHEM: Collaborative Research: Development of Multifunctional Reactive Electrochemical Membranes for Biomass Recovery with Fouling Reduction, Water Reuse, and Cell Pretreatment	47.041		CBET-1603609	143,094	-	-
Dynamic Invasive Species Control optimization Via Integrated Education and Research	47.041		CBET-1820850	12,955	-	-
EAGER: Connected and Automated Vehicle Assessment Platform Using a Crowdsourced Cyber-Physical Reality	47.041		CMMI-1844238	44,763	-	-
I-Corps Site: New Jersey Institute of Technology	47.041		IIP-1450182	57,704	-	-
I-Corps: Point-of-Care Micro Biochip for Cancer Diagnostics	47.041		IIP-1643861	222	-	-
EarthCube Data Infrastructure: Intelligent Databases and Analysis Tools for Geospace Data	47.041		ICER-1639683	138,521	-	-
I-Corps: Nanomedicine as Treatment for Drug-Resistant Bacteria	47.041		IIP-1723667	7,404	-	-
PFI: AIR - TT: A Novel Vector Acoustic Communication Technology for High Speed Underwater Modems	47.041		IIP-1500123	21,212	-	-
PFI: AIR-RA: Commercializing Pharmaceutical Process Modeling for Continuous Manufacturing	47.041	Rutgers, The State University of New Jersey	IIP-1537197	3,972	-	-
ERC for Structured Organic Composites Pharmaceutical, Nutraceutical, and Agrochemical Applications	47.041	Rutgers, The State University of New Jersey	EEC-0540855	221,575	-	-
Efficient Monte Carlo Methods for Characterization of Safety Margins of Nuclear Power Plants	47.041		CMMI-1537322	95,001	-	-
Integrated Experiments and Modeling of Smart Polymeric Gels	47.041		CMMI-1463121	78,661	-	-
Optimization Algorithms for Decision Problems with Many Variables	47.041		CMMI-1562466	66,113	-	-
Science and Technology Center for Mechano-Biology	47.041	The Trustees of The University of Pennsylvania	CMMI-1548571	150,450	-	-
Remediation of Contaminated Sediments with Ultrasound and Ozone Nano-Bubbles	47.041		CMMI-1634857	168,612	-	-
REU Site: Optics and Photonics: Technologies, Systems, and Devices	47.041		EEC-1560131	96,925	-	-
Effect of the Triaxial State of Stress in the Connectivity of Hydraulically-Created Fractures in Crystalline Rocks	47.041		CMMI-1738081	66,154	-	-
ICORP: Injectable Gel for Treating Diabetic Retinopathy	47.041		IIP-1903617	42,902	-	-
I-Corps: Automatic Music Generation Using Artificial Intelligence and Music Therapy	47.041		IIP-1916649	19,782	-	-
I-Corps: Automating Reforestation Using Machine Learning and Unmanned Aerial Vehicles	47.041		IIP-1756056	8,282	-	-
I-Corps: Innovative Nano Catalysts for Automobile and Fuel Cell Applications	47.041		IIP-1838369	44,996	-	-
I-Corps: Reactive Nanobubbles Technology for Green and Sustainable Environmental and Agricultural Applications	47.041		IIP-1912367	26,942	-	-
I-Corps: Virtual Reality Vision Therapy	47.041		IIP-1757434	7,467	-	-
ISS:GOAL: Nonequilibrium Processing of Particle Suspensions with Thermal and Electrical Field Gradients	47.041		CBET-1832260	8,108	-	-
Modeling Steep Surface Waves Evolving Under Wind Forcing and Energy Dissipation Due to Wave Breaking	47.041		DMS-1517456	19,450	-	-
Linking how the mechanics of high rate and impulse of loading to the brain leads to varying types and levels of damage to neuronal structure and function	47.041		CBET-1706157	35,572	-	-
Mechanistic study of N8-polyntrogen synthesis and its oxygen reduction reaction	47.041		CBET-1804949	2,572	-	-
Numerical Methods and Analysis for Induced-Charge Electrokinetic Flow with Deformable Interfaces	47.041		DMS-1412789	8,804	-	-
PFI: AIR - TT: Electroactive Scaffold for Cartilage Regeneration: A Proof of Concept Study	47.041		IIP-1700945	136,855	-	-
Phase II IUCRC at NJIT: Center for Membrane Science, Engineering and Technology (MAST)	47.041		IIP-1822130	94,293	-	-
Planning IUCRC at NJIT Center for Integrated Material Science and Engineering for Pharmaceutical Products (CIMSEPP)	47.041		IIP-1841433	1,239	-	-
Probing Facet Dependent Properties of Crystalline Nanomaterials and Interactions with Biomolecules using Hybrid AFM	47.041		CBET-1756444	40,379	-	-
REU Site: Optics and Photonics: Technologies, Systems, and Devices	47.041		EEC-1852375	54,032	-	-
SNNow: Probabilistic Learning for Deep Spiking Neural Network: Foundations and Hardware Co-Optimization	47.041		ECCS-1710009	96,522	-	-
The Next Generation of Geospace Research Facilities at South Pole and McMurdo Stations	47.041		OPP - 1643700	276,620	-	-
Travel Grant for International Workshop on Characterization of Porous Materials	47.041		CBET 1818797	800	-	-
Efficient Solutions of Wave Propagation Problems in Multi-Layered, Multiple Scattering Media	47.049		DMS-1614270	57,233	-	-
EXTREEMS-QED: Research and Training in Computational and Data-Enabled Science and Engineering for Undergraduates in the Mathematical Sciences at NJIT	47.049		DMS-1331010	89,611	-	-
3D Magnetic and Thermal Structure of Active Regions of the Sun	47.049		AST-1820613	129,185	-	-
CAREER: Generated Jacobian Equations in Geometric Optics and Optimal Transport	47.049		DMS-1751996	14,239	-	-
Magnetization Dynamics at Nanoscale	47.049		DMS-1614948	139,102	-	-
Coherent Structures in Nanomagnetism	47.049		DMS-1908709	46,651	-	-
Collaborative Research: Efficient High-Order Algorithms for Nonequilibrium Microflows Over the Entire Range of Knudsen Number	47.049		DMS-1720405	54,003	-	-
High-Resolution Studies of Dynamic Processes in the Sunspot Umbra: Preparing for the Era of the Daniel K. Inouye Solar Telescope	47.049		AST-1614457	156,148	-	-
Dedicated Radio Imaging and Magnetic Field Measurements of the Sun	47.049		AST-1615807	308,334	-	-

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Research and Development Cluster, continued:						
National Science Foundation, continued:						
Collaborative Research: Electron Acceleration and Emissions from the Solar Flare Termination Shock	47.049		AST-1735405	\$ 66,670	\$ -	\$ -
Collaborative Research: Expanding Links with Industry through Collaborative Research and Education in Applied Mathematics	47.049		DMS-1261596	1,018	-	-
Collaborative Research: Efficient High-Order Parallel Algorithms for Large-Scale Photonics Simulation	47.049		DMS-1418918	9,169	-	-
Collaborative Research: Engineering a Multienzyme Complex with Synthetic and Mechanistic Goals	47.049		CHE-1402729	29,350	-	-
Collaborative Research: Computational and Data-Enabled Science and Engineering: Characterizing Dynamic of Particle-Based Systems	47.049		DMS-1521717	26,504	-	-
Collaborative Proposal: Theoretical, Computational, and Experimental Investigations on the Interaction between a Lipid Bilayer Membrane and a Solid Substrate or Particle	47.049		DMS-1614863	59,822	-	-
Collaborative Research: Overcoming Order Reduction and Stability Restrictions in High-Order Time-Stepping	47.049		DMS1719693	98,775	-	-
Conference on Frontiers in Applied and Computational Mathematics	47.049		CHE-1915878	79,552	-	-
GOAL: Predicting Performance and Fouling of Membrane Filters	47.049		DMS-1615719	39,694	-	-
US-Israel Research Proposal: Network Resonance: Revealing the Neuronal Mechanisms	47.049		DMS-1608077	83,967	-	-
Meshfree Finite Difference Methods for Nonlinear Elliptic Equations	47.049		DMS-1619807	56,365	-	-
Exploiting the Bifunctional Properties of Zinc Oxide as a Smart Biomimetic Material	47.049		DMR-1610125	104,129	-	-
CAREER: Neuronal Data Assimilation Tools and Models for Understanding Circadian Rhythms	47.049		DMS-1555237	68,285	-	-
Efficient High Frequency Integral Equations and Iterative Methods	47.049		DMS-1720014	47,216	-	-
Hybrid Halide Perovskite Materials for Photocatalytic Carbon-Carbon bond Formation	47.049		CHE-1764142	16,093	-	-
Impact of Nanoscale Structure on Properties of Multiferroic Complex Oxides	47.049		DMR-1809931	85,293	-	-
Liquid Crystal Films Across Scales: Dewetting and Dielectrowetting	47.049		DMS-1815613	7,603	-	-
MRI Consortium: Development of Magneto-Ellipsometer for the MET Beamline of the National Synchrotron Light Source (NSLS-II), Brookhaven National Laboratory	47.049		DMR-1828061	22,077	-	-
New Polymeric Biomaterial Inks for 3-D Printing	47.049		DMR-1714882	212,317	204,081	-
NRAO Student Observing Award to Yi-Chai (Dale Gary)	47.049		AST-1519126/SOSP4-010	2,465	-	-
Numerical Methods for Multiscale Inverse Problems and Applications to Sonar Imaging	47.049		DMS-1720306	43,587	-	-
Recent Advances in Numerical Wave Propagation	47.049		DMS-1822316	19,468	-	-
Solar Multi-Conjugate Adaptive Optics: Testing and Commissioning on the 1.6 Meter Solar Telescope in Big Bear	47.049		AST-1710809	221,159	74,317	-
Spatio-Temporal Dynamics of Cell Calcium	47.049		DMS 1517085	9,395	-	-
Synoptic Investigations of the Sun Using SOLIS of NSO	47.049		AST-1400450/N96909C/MOU	256,756	-	-
The Role of Neuronal Ionic Current Correlations and Level Sets in Network Activity	47.049		DMS-1715808	136,824	-	-
Conference on Frontiers in Applied and Computational Mathematics	47.049		DMS-1903321	1,621	-	-
CAREER: Molecular Mechanism of Atmospheric Mercury through Speciation-Resolved Experiments	47.050		AGS-1554777	127,273	-	-
CAREER: Probing Energy Release in Solar Explosive Events with New Generation Radio Telescopes	47.050		AGS-1654382	91,213	-	-
CEDAR - Effects of the 2017 Total Solar Eclipse on the Earth's Ionosphere	47.050	Virginia Polytechnic Institute and State University	AGS-1552188/479505-19C75	23,236	-	-
High Resolution Observations of Evolution of Magnetic Fields and Flows Associated with Solar Eruptions	47.050		AGS-1408703	94,506	-	-
Understanding Storm-Time Electromagnetic Ion Cyclotron (EMIC) Wave Occurrences and Their Relationship to Ground Signatures	47.050		AGS-1547252	15,155	-	-
Collaborative Research: Kinetics and Mechanism of Restructuring of Atmospheric Soot and Associated Impact on Light Absorption	47.050		1463702	85,124	-	-
Studies of White-Light and Black-Light Flares Using the 1.6m New Solar Telescope (NST) at Big Bear Solar Observatory (BBSO)	47.050		AGS-1539791	123,473	-	-
GEM: The Generation of Falling-Tone Chorus and Scattering of Particles by Chirped Waves	47.050		AGS-1502923	98,963	-	-
Scientific Studies from a Network of Sustainable, Robotic Observatories Across the Antarctic Ice-shelf: A New Approach to Polar Research	47.050		PLR-1443507	360,202	-	-
Collaborative Research: SHINE: Study of Long-Term Variability of Solar Chromospheric Activity in Multiple Solar Cycles	47.050		AGS - 1620875	96,195	-	-
Collaborative Research: Nonlinear Interactions between Surface and Internal Gravity Waves in the Ocean	47.050		OCE-1634939	161,638	-	-
EarthCube RCN: Towards Integration of Heliophysics Data, Modeling, and Analysis Tools	47.050		AGS-1743321	108,581	-	-
GEM-Global Propagation Characteristics of Electromagnetic Ion	47.050		AGS-1602560	2,846	-	-
Ham Radio Science Citizen Investigation (HamSCI) Workshop 2019	47.050		AGS-1916690	15,513	-	-
High Resolution Studies of the Sun using the New Solar Telescope (NST)	47.050		AGS - 1250818	(738)	-	-
Magnetic Energy Release During Solar Eruptions-From Large to Small Scales	47.050		AGS-1723436	33,695	-	-
Revealing Evolution of Electrons and Magnetic Field in Solar Flares	47.050		AGS-1817277	165,434	-	-
Workshop: Roadmap for Reliable Ensemble Forecasting of the Sun-Earth System	47.050		AGS-1812964	13,707	-	-
Collaborative Research: EAGER: Fusion of Data and Power for a Controllable Delivery Power Grid	47.070		CNS-1641033	147,591	-	-
CCF-BSF: AF: Small Collaborative Research: Practice Friendly Theory and Algorithms for Linear Regression Problems	47.070		CCF-1813374	19,146	-	-
CHS: EAGER: Handling Online Risks and Creating Safe Spaces: Content Moderation in Live Streaming Micro Communities	47.070		IIS-1841354	34,720	-	-
CHS: Small: An Optimized Human-Machine Intelligence Framework for Single and Multi-Label Classification Tasks Through Active Learning	47.070		IIS-1814595	67,004	-	-
CPS: Synergy: Collaborative Research: Real-time Data Analytics for Energy Cyber-Physical Systems	47.070		1660025	24,901	-	-
CIF: Small: Collaborative Research: Communicating While Computing: Mobile Fog Computing Over Wireless Heterogeneous Networks	47.070		CCF-1525629	42,223	-	-
CIF: Small: Collaborative Research: Coordination and Cooperation in Networked Multi-Agent Systems	47.070		CCF-1440014	6,359	-	-
CRIF: SaTC: PrivateNet-Preserving Differential Privacy in Deep Learning under Model Attacks	47.070		CNS-1850094	8,731	-	-
CSR: Small : Collaborative Research: An Integrated Approach to Performance Modeling and Optimization of Big-Data Scientific Workflows	47.070		156098	23,534	-	-
Development of ESPRIT-Emerging Systems Performance and Energy Evaluation Instruments and Testbench	47.070		CNS-1828123	40,375	-	-
REU Site: Collaborative Research: Undergraduate Research in Computational Data Analytics for Advancing Human Services	47.070		CNS-1659472	58,740	-	-
Fast algorithms via a spectral theory for graphs with a prescribed cut structure	47.070		FAIN 1912051	40,770	-	-
NeTS: Small: FreeNet: Cognitive Wireless Networking Powered by Green Energy	47.070		CNS-1320468	21,942	-	-
NeTS: Small: Collaborative Research: Coexistence of Directional Communications within 5G Networks: The Case for Visible Light Enhanced Small-Cells	47.070		CNS-1617924	57,271	-	-

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Research and Development Cluster, continued:						
National Science Foundation, continued:						
NeTS: Small: Free Space Optics as Backhaul and Energizer for Drone-assisted Networking	47.070		CNS-1814748	\$ 65,726	\$ -	\$ -
CRII: Cyberlearning: Keeping Computer Programming Learners Engaged Online	47.070		IIS-1657160	76,011	-	-
SHF: Small: Virtualization of Heterogeneous and Non-Uniform Memory Hierarchy	47.070		CCF-1617749	93,733	-	-
CAREER: Differential Types and Declarative Hypothesis Testing for Software Evolution	47.070		CCF-1629186	143,450	-	-
TWC: Small: Collaborative: Improving Android Security with Dynamic Slicing	47.070		CNS-1617584	728	-	-
CSR: Medium: Mobile Distributed Computing in the Cloud	47.070		CNS-1409523	13,142	-	-
EAGER: Factoring User Behavior into Network Security Analysis	47.070		CNS-1665235	30,385	30,385	-
US Ignite: Focus Area 1: Fast Autonomic Traffic Congestion Monitoring and Incident Detection through Advanced Networking, Edge Computing, and Video Analytics	47.070		CNS-1647170	128,169	-	-
SaTC: CORE: Medium: Collaborative: Theory and Practice of Cryptosystems Secure Against Subversion	47.070		CNS-1801492	75,191	-	-
SaTC: TTP: Medium: Collaborative: Securing the Software Supply Chain	47.070		CNS-1801430	74,850	-	-
SHF: Small: Collaborative Research: Tailoring Memory Systems for Data-Intensive HPC Applications	47.070		CCF-1718297	24,529	-	-
SHF: Small: Collaborative Research: Understanding, Modeling and System Support for HPC Data Reduction	47.070		CCF-1812861	1,332	-	-
TWC: Small: Communication under Adversarial Attacks in Complex Networks - Fundamental Limits and Secure Coding Strategies	47.070		CNS-1526547	104,206	-	-
Collaborative Research: ABI Development: A User-friendly Tool for Highly Accurate Video Tracking	47.074	University of North Carolina at Charlotte	DBI-1564850/SUB 20160141-01-NJ 1557895	4,471	-	-
Collaborative Research: Neural Mechanisms of Active Sensing	47.074		DEB-1839915	58,605	-	-
RoL: FELLS: RAISE: A Phylogenetically-Based Bioinspired Robotic Model Approach to Addressing the Evolution of Terrestrial Locomotion	47.074		DBI-1820631	55,230	-	-
Workshop: Present and Future Theoretical Frameworks in Neuroscience	47.074		IOS-1557610	105,344	-	-
Collaborative Proposal: No Brainer: Cognitive-Like Behaviors in a Unicellular Slime Mold Spatiotemporal Modeling of Human Dynamics across Social Media and Social Networks	47.075	San Diego State University Foundation	SA 0000647	18,047	-	-
Workshop: Assessing Ethics Education Interventions in Science and Engineering: Washington, D.C., August 2019	47.075		SES-1835276	2,143	-	-
Graduate Research Fellowship Program (GRFP)	47.076		FGE-1849508	42,939	-	-
NJIT Secure Computing Initiative	47.076		DGE-1565478	640,594	-	-
Increasing Urban Youth Participation in Computing through Mentorship and Coding Resources	47.076		1837489	36,276	-	-
NSF INCLUDES DDLP: Leadership and iSTEAM for Females in Elementary school (LIFE): An Integrated Approach to Increase the Number of Women Pursuing Careers in STEM	47.083		OIA-1744490	144,121	18,900	-
2019 MBI REU Undergraduate Summer Research Program	47.RD	The Ohio State University		13,620	-	-
High Resolution Studies of Solar Activity Using the 1.6-Meter Telescope in Big Bear	47.RD		AGS-1821294	466,644	-	-
Lean Factory Waste Reduction Modeling Methods and Management Decision Support Toolkit On Site Technical Support of Global Oscillation Network Group (GONG)	47.RD	Association of Universities for Research in Astronomy (AURA)	IIP-1849894	52,254	-	-
			AST-0946422/PO NB3052B-N	44,639	-	-
Total National Science Foundation				10,728,126	327,683	-
U.S. Veteran Affairs Medical Center						
Prevention of foot complications in diabetes	64.RD		IPA AGREEMENT 5/8/17	40	-	-
Total U.S. Veteran Affairs Medical Center				40	-	-
U.S. Environmental Protection Agency:						
Nanobubble Systems for Harmful Algae Removal	66.516		SU-83945101-0	13,094	-	-
Reactive Electrochemical Membrane (REM) Filtration Reactive Electrochemical Membrane (REM) Filtration	66.516		SU-83945201	6,266	-	-
Sustainable Recovery of Metals from Waste Lithium-Ion Batteries Through A Green Process	66.708		NP-96259118-0	24,871	-	-
Technical Assistance to Brownfield Communities - EPA Regions 5, 6, 7 & 8	66.814	CFD Research Corporation	S18058/USEPA83544901	44,643	-	-
Technical Assistance to Brownfields Communities in US EPA Regions 1, 3 & 4	66.RD		TR 83683001	651,001	255	-
Hemningson Durham and Richardson PC						
Development of ex situ biotreatment of 1,4-dioxane at a Superfund site in NJ	66.RD		051-RDRD-0256/PO#1000100039001	8,874	-	-
Total U.S. Environmental Protection Agency				748,749	255	-
U.S. Department of Health and Human Services:						
Management of The New Jersey Health Information Network	93.RD	N.J. Dept. of Health and Human Services	MOA DATED 01/16/2018	3,276,375	3,276,375	-
Management of The NJ HIN Mod # 01 -Substance Use Disorder Promoting Interoperability Program	93.RD	N.J. Dept. of Health and Human Services	MOA MOD#01 DT 4/9/19	25,803	25,803	-
Medicaid Provider Program Expansion	93.RD	N.J. Dept. of Health and Human Services	MOA DATED 11/17/2017	1,243,734	1,126,958	-
Development of Regulatory Science for Continuous Manufacturing of Strip-Film Based Drug Dosage Forms Capable of Real-Time Release	93.103		I U01 FD005521-01	245,542	-	-
Bioactivity and Mechanistic Studies Using a Comprehensive and Well Characterized Nanotube Library						
The Role of Sound Deprivation on Central Processing of Masking	93.113	University of Montana	1R01ES023209-01A1/PG15-6449501	132,836	-	-
CRCNS: Deciphering the laminar-specific functional connectivity and its vascular and neural correlates	93.173		7R03DC014008-03	33,706	-	-
Neural Correlates of Familial and Non-familial ADHD	93.213		1R01AT0098929-01	59,644	-	-
Neuromodulation of Neuronal Oscillations	93.242		1R15MH117368-01A1	18,562	-	-
NIOSH Region II Educational Resource Center	93.242	Mt. Sinai Medical Center	2R01MH060605-16	384,095	-	-
NIOSH Region II Educational Resource Center	93.242	Mt. Sinai Medical Center	5T42OH008422-13/0253-6538-4609	128,840	-	-
Neuroanatomical Markers of Persistence Versus Remission of ADHD	93.242		5T42OH008422-12/0253-6537-4609	2,084	-	-
CRCNS: Neurophysiological Basis of Brain Connectivity	93.279		IR03MH109791-01A1	47,890	-	-
A Family-Based Framework of Quality Assurance for Biomedical Ontologies	93.393		1 R01 DA038895-01	65,475	-	-
Early Events in KSVH Infection of Primary B-cells	93.393	The Trustees of The University of Pennsylvania	1R01CA190779-01	267,963	18,438	-
Fiber-Optic Dual-Modality Optical Coherence Tomography for in Situ Breast Tissue Targeted Therapies in Melanoma	93.394		5P01CA174439-05/ 568773	84,698	-	-
The role of genetic susceptibility in melanoma development	93.395	Wistar Institute of Anatomy and Biology	1R15CA213092-01A1	122,640	18,180	-
Rehabilitation Engineering Research Center on Wearable Robots for Independent Living	93.395	Wistar Institute of Anatomy and Biology	2P01CA114046-08/24921-03-314	135	-	-
Transforming Clinical Practice Initiative	93.396		1R01CA182890-01/24891-02-314	22,176	-	-
The Effect of Myocardial Inflammation on Stem Cell Effectiveness as "Repair Cell" Therapy	93.433		90RES021-01-00	560,805	181,563	-
Underlying Mechanisms of Cerebellar tDCS	93.638		1L1CMS331458-01	9,470,712	2,388,574	-
The Role of Axons in Neural Coding	93.837		1R15HL135726-01A1	203,611	63,481	-
Novel Cellular Approach to Study Acute Neuronal Hyperexcitability in a Traumatic Brain Injury Model	93.853		1R21NS101386-01A1	356,721	211,019	-
Optimizing Hand Rehabilitation Post-Stroke Using Interactive Virtual Environments	93.853	Rutgers, The State University of New Jersey	5R01NS083319-03	88,055	-	-
			1R21NS095158-01A1	12,318	-	-
			2R01HD058301-05A1	770,950	584,640	-

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
 Schedule of Expenditures of Federal Awards  
 For the year ended June 30, 2019

Federal Grantor/Pass-Through Grantor/Program or Cluster Title	Federal CFDA Number	Pass-Through Entity	Award Number	Current Year Expenditures	Subrecipient's Share of Total Expenditures	Noncash Assistance
<b>Research and Development Cluster, continued:</b>						
U.S. Department of Health and Human Services, continued:						
Brain Network Mechanisms of Aging-Related Cognitive Decline	93.866	Rutgers, The State University of New Jersey	5R01AG055556-02/SUBAWARD 0641	\$ 13,032	\$ -	\$ -
A Whole-Brain Ultrasonic Neural Stimulation and Photoacoustic Recording System in Behaving Animals	93.867	North Carolina State University	5R21EY028456-02/ 2017-1723-01	95,410	-	-
Peptide hydrogels for management and treatment of neovascular posterior	93.867		1R15EY029504-01A1	8,949	-	-
Functional Mechanisms of Neural Control in Convergence Insufficiency	93.867		1 R01 EY023261-01A1	342,511	16,853	-
Plasticity in the CNS of Blind Fish After Eye Regeneration	93.867		1R15EY027112-01A1	132,096	-	-
Remote identification of mosquito species related to infectious diseases using a dual-wavelength polarization sensitive lidar	93.RD		R03A1138133	63,740	5,040	-
Planning and Updating in Frontoparietal Network for Grasping	93.853	Northeastern University	7R01NS085122-03	36,924	6,637	-
Total U.S. Department of Health and Human Services				18,318,032	7,923,561	-
Total Research and Development Cluster				81,883,628	36,654,919	-
<b>Student Financial Assistance Cluster:</b>						
U.S. Department of Education:						
Federal Supplemental Educational Opportunity Grants - 2019	84.007		P007A192589	363,992	-	-
Federal Supplemental Educational Opportunity Grants - 2018	84.007		P007A182589	(225)	-	-
Federal Work-Study Program- 2019	84.033		P033A192589	440,433	-	-
Federal Perkins Loan	84.038		P038A042589	897,627	-	-
Federal Pell Grant Program - 2019	84.063		P063P190269	15,660,772	-	-
Federal Pell Grant Program - 2018	84.063		P063P180269	289,346	-	-
William D. Ford Federal Direct Student Loan Program -2019	84.268		P268K190269	42,096,032	-	-
William D. Ford Federal Direct Student Loan Program -2018	84.268		P268K180269	298,538	-	-
Total U.S. Department of Education				60,046,515	-	-
Total Student Financial Assistance Cluster				60,046,515	-	-
<b>Other Federal Assistance:</b>						
<b>Medicaid Cluster:</b>						
U.S. Department of Health and Human Services:						
Medicaid Specialist Program	93.778		MOA DT 12/02/2011	521	-	-
New Jersey Electronic Health Record (EHR) Incentive Program	93.778		MOA DATED 07/29/2014	(23,917)	-	-
New Jersey Medicaid Provider On-boarding to Health Information Exchange	93.778		MOA DATED 09/02/2016	138,090	138,090	-
NJ Medicaid Provider On-boarding to HIE-Infrastructure and Architecture Enhancements	93.778		MOA DATED 01/03/2018	4,188,377	4,188,377	-
Total Medicaid Cluster				4,303,071	4,326,467	-
<b>National Science Foundation:</b>						
Greater Philadelphia Region Louis Stokes Alliance for Minority Participation (Philadelphia AMP) Initiative (Senior-Level Alliance) - Phase V	47.076	Drexel University	HRD-1408052/235920	40,036	-	-
Total National Science Foundation				40,036	-	-
<b>U.S. Department of Labor:</b>						
New Jersey's Technology Talent Network - Year 2018	17.278	N.J. Department of Labor & Industry	SXF18TN011	158,669	-	-
NJ WDP: Employer Engagement Services	17.U01	Morris County	AGREEMENT NJIT-17-WIOA/WFNI	490	-	-
Total U.S. Department of Labor				159,159	-	-
<b>U.S. Defense Logistics Agency:</b>						
Defense Procurement Agreement FY17-18	12.002		SP4800-17-2-1723	69,608	27,323	-
Defense Procurement Agreement FY18-19	12.002		SP4800-18-2-1823	481,473	41,880	-
Total U.S. Defense Logistics Agency				551,081	69,203	-
<b>U.S. Department of Defense:</b>						
Economic Adjustment Activities in State of New Jersey -NJ Market Shift Phase II	12.617		HQ00051710008/ST1434-17-02	221,347	146,864	-
Economic Adjustment Activities in State of New Jersey -NJ Market Shift Phase III	12.617		ST1434-17-03	18,420	-	-
Total U.S. Department of Defense				239,767	146,864	-
<b>U.S. Department of Energy:</b>						
Non-Reciprocal Effects in Polar/Chiral/Ferroaxial Magnets:						
Neutron and Optical Studies	81.049	Rutgers, The State University of New Jersey	DE-FG02-07ER46382 / 5970	94,843	-	-
Re-Side Right: A Systems Approach to High Performance Re-Siding Projects	81.086		DE-EE0008692	1,705	-	-
Biomass Conversion to Acrylonitrile Monomer-Precursor for Production of Carbon Fibers	81.U02	Southern Research Institute	EE0006781	6,046	-	-
Enabling Intelligent Security Assessment for HPC Systems via Automated Learning and Data Analytics	81.U03	Intelligent Automation, Inc.	DE-SC0017180/2269-1	1,867	-	-
Optical imaging system for in situ characterization of mixed phase clouds	81.U04	Mesa Photonics LLC	DE-SC0017149/ SUBCONTACT AGMT	92	-	-
Understanding and Enhancing scientific data reduction for extreme-scale computing	81.U05	Brookhaven Science Associates, LLC	DE-SC0012704/ AWARD 358314	4,307	-	-
Science-Driven Data Management for Multi-Tiered Storage	81.U06	UT-Battelle, LLC	DE-AC05-00OR22725	18,355	-	-
Software Defined Storage for End-to-End Data Transfer	81.U07	UT-Battelle, LLC	#4000154362	133,874	-	-
Total U.S. Department of Energy				261,089	-	-
<b>U.S. Center for Disease Control</b>						
Health Alert Network/Training for Bioterrorism	93.074	N.J. Department of Health	MOA DT 05/31/16	726,742	-	-
Total U.S. Center for Disease Control				726,742	-	-
<b>U.S. Department of Education:</b>						
<b>TRIO Cluster:</b>						
Educational Talent Search Program 9/1/16-8/31/21	84.044		P044A160954	316,245	-	-
TRIO - Upward Bound	84.047		P047A170702	432,771	-	-
Upward Bound	84.047		P047A121489	(1,154)	-	-
Upward Bound 2	84.047		P047A171553	330,514	-	-
Upward Bound for English Language Learners (ELLs)	84.047		P047A170743	249,784	-	-
New Jersey Institute of Technology Ronald E. McNair Post baccalaureate Achievement Program	84.217		P217A120008	(574)	-	-
New Jersey Institute of Technology Ronald E. McNair Post baccalaureate Achievement Program	84.217		P217A170145	237,244	-	-
Total TRIO Cluster				1,564,830	-	-
Gaining Early Awareness and Readiness for Undergraduate Programs	84.334		P334S050027	1,624	-	-
The Consortium for Pre-College Education in Greater Newark/GEAR UP at New Jersey Institute of Technology (Federal & State Funding)	84.334	N.J. Commission on Higher Education	16YRS-809170-0003	6	-	-
The Consortium for Pre-College Education in Greater Newark/GEAR UP at New Jersey Institute of Technology (Federal & State Funding)	84.334	N.J. Commission on Higher Education	17YR68091700003/P334S110034-16	1,230	-	-
The Consortium for Pre-College Education in Greater Newark/GEAR UP at New Jersey Institute of Technology (Federal & State Funding)	84.334	N.J. Commission on Higher Education	18YR7NCE8091700003/P334S110034	257,012	-	-
Total U.S. Department of Education				1,824,702	-	-
<b>U.S. Department of Health and Human Services:</b>						
Health Alert Network/Training for Bioterrorism FY 18	93.074	N.J. Dept. of Health and Human Services	MOADT05/31/16	9,167	-	-
Total Expenditures of Federal Awards				\$ 150,044,957	\$ 41,197,453	\$ -

The accompanying notes to the schedule of expenditures of Federal awards and State of New Jersey awards should be read in conjunction with this schedule.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**

Schedule of Expenditures of State of New Jersey Awards

For the year ended June 30, 2019

State of New Jersey Grantor/Pass-Through Grantor/Program or Cluster Title	Award Number	Grant Amount	Grant Period		Current Year Expenditures
			From	To	
Research and Development Cluster:					
N.J. Department of Transportation:					
Advance Reinforced Concrete Materials for Transportation	19-60155 TO#117	\$ 3,557	5/15/2019	5/14/2020	\$ 3,557
Bridge Resource Program -Resilience and Scour	DOT TO#349/SUB CONT # 0591	49,995	5/15/2018	12/31/2018	49,995
Customization of Telus For NJDOT'S Interactive Website For The Display Of Capital Programming Project	TASK ORDER 78	623,948	10/1/2007	6/30/2019	426,974
ePROMPTS hosting, Maintenance & Support	19-60149 TO# 116	4,902	6/1/2019	12/31/2019	4,902
Freight Management Tool - Enhancing Freight Tool Capabilities and Development of Performance Measures	52241 TO3/2015BTS064	175,467	3/13/2017	3/6/2018	(87)
Rail and Freight Planning and Scope Development Services	52241 TO6/2015BTS064	9,842	1/15/2019	5/15/2020	9,842
Total N.J. Department of Transportation		867,711			495,183
N.J. Department of Health & Senior Services:					
A Novel Combination Strategy Using Schwann Cells	CSCR19ERG008	1,036	5/1/2019	4/30/2021	1,036
Brain Injury Research (Fellowships) 2019	CBIR19FEL020	4,500	4/1/2019	3/31/2022	4,500
Brain Injury Research (Pilot Project) 2017	CBIR17PIL020	149,345	7/1/2017	6/30/2020	72,994
Brain Injury Research (Pilot Projects) 2017	CBIR17PIL012	38,720	7/1/2017	6/30/2020	21,015
Brain Injury Research (Pilot Projects) 2016	CBIR16PIL018	168,390	7/1/2016	6/30/2019	90,201
Brain Injury Research (Pilot Projects) 2016	CBIR16PIL021	170,981	7/1/2016	6/30/2019	70,523
Brain Injury Research Projects (Individual) 2015	CBIR15IRG022	347,617	6/1/2015	5/31/2018	(6,362)
Schwann Cell GAG mimetic Combination Strategy for Spinal Cord Repair	CSCR16ERG014	192,230	7/1/206	6/30/2019	96,519
Spinal Cord - Fellowship 2018	CSCR18FEL006	32,315	6/1/2018	5/31/2020	32,315
Spinal Cord - Fellowship 2015	CSCR15FEL002	59,879	7/1/2015	12/30/2018	6,490
Study of sex differences in preschool children with autism spectrum	CAUT16APL019	280,538	7/1/2016	6/30/2020	115,321
Total N.J. Department of Health & Senior Services:		1,445,551			504,552
N.J. Board of Public Utilities:					
The Clean Energy Learning Center	71D-082-2014-003	890,568	10/8/2015	8/31/2019	451,706
Total N.J. Board of Public Utilities		890,568			451,706
N.J. Department of Education:					
Collaboration with Long Branch School District iSTEAM	#2071	2,172	9/1/2018	8/31/2019	2,172
N.J. DOE Online module videos	FAIN: # S424A170031	24,714	9/26/2018	8/20/2019	24,714
Talent Development Center: Building and Implementing Career Pathways in Key Industries	AGREEMENT DTD 11/1/17	34,994	11/1/2017	10/31/2018	34,994
Total N.J. Department of Education		61,880			61,880
N.J. Department of Community Affairs:					
Microgrids for Resilient Communities Planning Project	SRPAG-185828	396,247	12/12/2016	6/30/2018	12,777
Total N.J. Department of Community Affairs		396,247			12,777
N.J. Commission on Higher Education:					
FY 19 College Bound	19YR8-809170-0003	537,828	9/26/2018	6/30/2019	537,828
Total N.J. Commission on Higher Education		537,828			537,828
N.J. Economic Development Authority:					
Innovation Planning Challenge	PO# FIN19060	18,919	12/4/2018	6/3/2019	18,919
Total N.J. Economic Development Authority		18,919			18,919
N.J. Department of Labor & Industry:					
Construction & Utilities TDC	LETTER DATED 10/20/17	123,370	10/31/2017	7/31/2019	101,117
New Jersey's Construction & Utilities (North) Talent Network	LETTER DATED 12/20/17	222,114	1/1/2018	12/31/2018	170,453
Total N.J. Department of Labor & Industry		345,484			271,570
Total Research and Development Cluster		4,564,188			2,354,415

**NEW JERSEY INSTITUTE OF TECHNOLOGY**

Schedule of Expenditures of State of New Jersey Awards

For the year ended June 30, 2019

State of New Jersey Grantor/Pass-Through Grantor/Program or Cluster Title	Award Number	Grant Amount	Grant Period		Current Year Expenditures
			From	To	
Student Financial Assistance Cluster:					
N.J. Higher Education Student Assistance Authority:					
New Jersey College Loans to Assist State Students - AY 17/18	—	2,294,770	7/1/2017	6/30/2018	26,883
New Jersey College Loans to Assist State Students - AY 18/19	—	1,882,189	7/1/2018	6/30/2019	1,882,189
Total N.J. Higher Education Student Assistance Authority		4,176,959			1,909,072
N.J. Commission on Higher Education:					
FY19 Tuition Aid Grant	2405-100-074-2405-007	21,986,605	7/1/2018	6/30/2019	21,986,605
FY18 Tuition Aid Grant	2405-100-074-2405-007	20,936,771	7/1/2018	6/30/2019	2,010
NJ Star II	2405-100-074-2405-313	75,460	7/1/2018	6/30/2019	75,460
Total N.J. Commission on Higher Education		42,998,836			22,064,075
Total Student Financial Assistance Cluster		47,175,795			23,973,147
N.J. Commission on Higher Education:					
Educational Opportunity Fund - Undergraduate	2401-100-074-2401-001	416,500	7/1/2018	6/30/2019	416,500
Educational Opportunity Fund - Graduate (FY18)	2401-100-074-2401-001	436,519	7/1/2017	6/30/2018	1,350
Educational Opportunity Fund - Graduate	2401-100-074-2401-001	2,950	7/1/2018	6/30/2019	2,950
Governor's Urban Scholarship Program	2405-100-074-2405-329	29,000	7/1/2018	6/30/2019	29,000
Educational Opportunity Fund - Summer - Article IV (FY20)	2401-100-074-2401-001	2,667	6/1/2019	7/31/2020	2,667
Educational Opportunity Fund - Summer - Article IV (FY17)	2401-100-074-2401-001	427,678	6/1/2016	7/31/2017	(1,270)
Educational Opportunity Fund - Summer - Article IV (FY19)	2401-100-074-2401-001	685,112	6/1/2018	9/30/2018	685,112
Educational Opportunity Fund - Academic Year - Article IV (FY19)	2401-100-074-2401-002	589,682	7/1/2018	6/30/2019	589,682
Total N.J. Commission on Higher Education		2,590,108			1,725,991
N.J. Office of Management & Budget:					
FICA and Fringe Benefits paid by the State of New Jersey	Various	70,300,309			70,300,309
State Appropriations	19-100-074-2430-143	35,440,000	7/1/2018	6/30/2019	35,440,000
State Appropriations-Medical Devices Innovation Cluster	19-100-074-2430-150	3,700,000	7/1/2018	6/30/2019	3,700,000
Total N.J. Office of Management & Budget		109,440,309			109,440,309
N.J. Educational Facilities Authority:					
Higher Education Equipment Leasing Fund 35-01	—	3,107,835	7/1/2014	6/30/2019	4,745
Higher Education Equipment Leasing Fund 35-03	—	3,999,201	7/1/2014	6/30/2019	1,960,644
Higher Education Capital Improvement Fund 135-01	—	18,929,616	12/1/2016	6/30/2019	9,365,720
Total N.J. Educational Facilities Authority		26,036,652			11,331,109
N.J. Office of the Secretary of Higher Education:					
Building Our Future General Obligation Bonds 35-01	—	30,659,497	3/1/2014	6/30/2019	57,136
Total N.J. Office of the Secretary of Higher Education		30,659,497			57,136
Total State of New Jersey Awards		\$ 220,466,549			\$ 148,882,107

The accompanying notes to the schedule of expenditures of Federal awards and State of New Jersey awards should be read in conjunction with this schedule.

# NEW JERSEY INSTITUTE OF TECHNOLOGY

## Notes to Schedules of Expenditures of Federal and State of New Jersey Awards

For the year ended June 30, 2019

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### 1. Basis of Presentation

The accompanying schedules of expenditures of Federal awards and State of New Jersey awards, respectively, have been prepared in accordance with the requirements stipulated by Title 2 U.S. *Code of Federal Regulations* (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) and, the State of New Jersey Department of the Treasury Circular 15-08, *Single Audit Policy for Recipients of Federal Grants, State Grants, and State Aid* (N.J. Treasury Circular 15-08), respectively. The purpose of these schedules is to present the respective expenditures of sponsored activities of New Jersey Institute of Technology (the University) for the year ended June 30, 2019, which have been awarded by either the Federal government or the State of New Jersey.

For purposes of the accompanying schedules, Federal and State of New Jersey awards include any assistance provided by a Federal or State agency directly or indirectly in the form of grants, contracts, cooperative agreements, direct appropriations, loan and loan guarantees, and other noncash assistance to the University, an entity defined in Note 1 of the University's basic financial statements. Included within the accompanying schedules of expenditures of Federal awards and State of New Jersey awards are expenditures of \$9,606,504 and \$68,914, respectively, related to grants awarded to and expended by New Jersey Innovation Institute, Inc., a component unit of New Jersey Institute of Technology. Because the accompanying schedules present only a selected portion of the activities of the University, as required by Uniform Guidance and N.J. Treasury Circular 15-08, they are not intended to, and do not, purport to present either the net position of the University at June 30, 2019 or the changes in net position and cash flows for the year then ended. Therefore, some amounts presented in these schedules may differ from amounts presented in, or used in the preparation of the University's 2019 basic financial statements.

The accounting principles followed by the University in preparing the accompanying schedules, follow:

- Expenditures for direct and indirect costs are recognized as incurred under the accrual basis of accounting in accordance with the provisions of Uniform Guidance and N.J. Treasury Circular 15-08 pursuant to which certain types of expenditures are not allowable or are limited as to reimbursement.

### 2. Facilities and Administrative Costs

The University has negotiated the following Facilities and Administrative (F&A) or Indirect Cost rates and fringe benefit rates for New Jersey Institute of Technology, that were finalized on June 23, 2017 and effective for the period from July 1, 2016 through June 30, 2019, and New Jersey Innovation Institute, Inc., that were finalized on June 29, 2017 and effective for the period from July 1, 2018 through June 30, 2019. Consequently, New Jersey Institute of Technology and New Jersey Innovation Institute, Inc. did not utilize the 10% de minimus indirect cost rate, as provided by §200.414 Indirect Costs (F&A) of the Uniform Guidance.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Notes to Schedules of Expenditures of Federal and State of New Jersey Awards**  
For the year ended June 30, 2019

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**New Jersey Institute of Technology**

**Indirect Cost Rates:**

<b>Location</b>	<b>Applicable To</b>	<b>Rate</b>
On-Campus	Other Sponsored Activities	53.50%
Off-Campus	Other Sponsored Activities	26.00%

**Fringe Benefit Rates:**

<b>Location</b>	<b>Applicable To</b>	<b>Rate</b>
All	Full-Time Employees	51.60%
All	Part-Time Employees	8.10%

**New Jersey Innovation Institute, Inc.**

**Indirect Cost Rates:**

<b>Location</b>	<b>Applicable To</b>	<b>Rate</b>
On-Campus	Other Sponsored Activities	49.60 %
Off-Campus	Other Sponsored Activities	44.00 %

**Fringe Benefit Rates:**

<b>Location</b>	<b>Applicable To</b>	<b>Rate</b>
All	Full-Time Employees	16.70 %
All	Part-Time Employees	6.40 %

**3. Direct and Other Loan Programs**

The University is responsible only for the performance of certain administrative duties with respect to the Federal Direct Student Loan Program and the New Jersey College Loans to Assist State Students Program and, accordingly, these loans are not included in its basic financial statements. It is not practical to determine the balance of loans outstanding to students of the University under these programs at June 30, 2019.

Additionally, the accompanying Schedule includes \$897,627 related to the Federal Perkins Loan Program (Perkins), which is comprised of outstanding loan balances from prior years for which the University retains continuing compliance requirements, as stipulated by §200.502 of the Uniform Guidance.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Notes to Schedules of Expenditures of Federal and State of New Jersey Awards**  
**For the year ended June 30, 2019**

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The following presents the activity of the Perkins Loan Program, Federal CFDA number 84.038, for the year ended June 30, 2019:

<b>Outstanding Loan Balance at June 30, 2018</b>	\$ 897,627
New Loans Issued	-
Payments Received	(294,959)
Funds Returned to U.S. Department of Education	(38,831)
Adjustments	<u>(200)</u>
<b>Outstanding Loan Balance at June 30, 2019</b>	<u>\$ 563,637</u>

**4. Matching**

Matching costs, i.e., the nonfederal share and nonstate share of program costs, are not included in the accompanying schedules.

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**REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS  
ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON  
COMPLIANCE AND OTHER MATTERS REQUIRED BY GOVERNMENT  
AUDITING STANDARDS**

To the Board of Trustees of  
**New Jersey Institute of Technology:**

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities of New Jersey Institute of Technology (the University), a component unit of the State of New Jersey, as of and for the years ended June 30, 2019 and 2018, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated December 20, 2019.

**Internal control over financial reporting**

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting (internal control) to design audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the University's financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in the University's internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

**Compliance and other matters**

As part of obtaining reasonable assurance about whether the University's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

**Intended purpose**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control and compliance. Accordingly, this report is not suitable for any other purpose.



Iselin, New Jersey  
December 20, 2019

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**REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS  
ON COMPLIANCE FOR EACH MAJOR FEDERAL AND STATE PROGRAM  
(UNIFORM GUIDANCE AND STATE OF NEW JERSEY DEPARTMENT OF  
THE TREASURY CIRCULAR 15-08) AND ON INTERNAL CONTROL OVER  
COMPLIANCE**

To the Board of Trustees of  
**New Jersey Institute of Technology:**

**Report on compliance for each major federal program**

We have audited the compliance of New Jersey Institute of Technology (the University) with the types of compliance requirements described in the U.S. Office of Management and Budget's *OMB Compliance Supplement* and State of New Jersey Department of the Treasury Circular 15-08, *Single Audit Policy for Recipients of Federal Grants and State Aid*, that could have a direct and material effect on each of its major Federal and State of New Jersey programs for the year ended June 30, 2019. The University's major Federal and State of New Jersey programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

**Management's responsibility**

Management is responsible for compliance with statutes, regulations, and the terms and conditions of its federal and state awards applicable to the University's Federal and State of New Jersey programs.

**Auditor's responsibility**

Our responsibility is to express an opinion on compliance for each of the University's major Federal and State of New Jersey programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States; the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance); and State of New Jersey Department of the Treasury Circular 15-08, *Single Audit Policy for Recipients of Federal Grants, State Grants, and State Aid* (N.J. Treasury Circular 15-08). Those standards, the Uniform Guidance, and N.J. Treasury Circular 15-08, require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major Federal and State of New Jersey program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each of the University's major Federal and State of New Jersey programs. However, our audit does not provide a legal determination of the University's compliance.

#### Opinion on each major program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major Federal and State of New Jersey programs for the year ended June 30, 2019.

### **Report on internal control over compliance**

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of compliance requirements that could have a direct and material effect on each major Federal and State of New Jersey program to design audit procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major Federal and State of New Jersey program and to test and report on internal control over compliance in accordance with the Uniform Guidance and N.J. Treasury Circular 15-08, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a Federal and State of New Jersey program on a timely basis. A material weakness in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a Federal and State of New Jersey program will not be prevented, or detected and corrected, on a timely basis. A significant deficiency in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a Federal and State of New Jersey program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in the University's internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this Report on Internal Control Over Compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance and N.J. Treasury Circular 15-08. Accordingly, this report is not suitable for any other purpose.

*Grant Thornton LLP*

Iselin, New Jersey  
March 9, 2020

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Schedule of Findings and Questioned Costs**  
**For the year ended June 30, 2019**

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**SECTION I – SUMMARY OF AUDITOR’S RESULTS**

Financial Statements:

Type of auditor’s report issued: Unmodified

Internal control over financial reporting:

- Material weakness(es) identified?  yes  no
- Significant deficiencies identified that are not considered to be material weakness(es)?  yes  none reported
- Noncompliance material to financial statements noted?  yes  no

Federal and State of New Jersey Awards:

Internal control over the major programs:

- Material weakness(es) identified?  yes  no
- Significant deficiencies identified that are not considered to be material weakness(es)?  yes  none reported

Type of auditor’s report issued on compliance for each major program: Unmodified

Any audit findings disclosed that are required to be reported in accordance with the Uniform Guidance or State of New Jersey Department of the Treasury Circular 15-08?  yes  no

Identification of the major programs:

<b>Program or Cluster Title</b>	<b>Federal CFDA number or State of N.J. identifying number</b>
<b>Federal:</b>	
Student Financial Assistance Cluster	Various
Medicaid	93.778
<b>State of New Jersey:</b>	
Student Financial Assistance Cluster	Various

Dollar threshold used to distinguish between type A and type B programs - Federal: \$3,000,000

Dollar threshold used to distinguish between type A and type B programs - State of N.J.: \$3,000,000

Auditee qualified as low-risk auditee?  yes  no

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Schedule of Findings and Questioned Costs**  
**For the year ended June 30, 2019**

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**SECTION II – Financial Statement Findings Reported in Accordance with *Government Auditing Standards***

None identified.

**SECTION III – Federal or State of New Jersey Awards Findings and Questioned Costs**

None identified.

**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Summary Schedule of the Status of Prior Year Audit Findings**  
**For the year ended June 30, 2019**

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**SECTION IV – Summary Schedule of the Status of Prior Year Audit Findings**

None identified.