Annual Institutional Profile Report

2021

Submitted to the
New Jersey
Office of the Secretary of Higher Education
by
The Office of Institutional Effectiveness
New Jersey Institute of Technology

September 2021
New Jersey Institute of Technology (NJIT) takes great pride in presenting this Institutional Profile to the State of New Jersey. This report highlights our efforts in education, scholarly and applied research, economic development, and engagement during Fiscal Year 2021.

NJIT has much to celebrate. Thanks to the efforts of our dedicated faculty and staff, we continue to be recognized for our success in graduating students ready for the challenges of the 21st century workforce by U.S. News and World Report, The Princeton Review, Forbes, and other national and international ranking agencies. The Times Higher Education Impact rankings, based on the United Nation’s Sustainable Development Goals, ranked us 90th globally for Affordable and Clean Energy and 2nd nationally for Decent Work and Economic Growth.

Despite the restrictions necessitated by the pandemic, our faculty were highly successful in obtaining funded research grants this year, with awards exceeding FY2020 totals by almost 20%. This growing research portfolio has placed us on the list of 131 Very High (R1) Research Activity doctoral institutions according to the Carnegie Classification of Institutions of Higher Education, positioning us as one of only three R1 universities in New Jersey along with Princeton University and Rutgers New Brunswick.

NJIT is committed to continuing and expanding our contributions to our state, the nation, and the world. We continue to support our host city of Newark through a number of initiatives including the Mayor's Scholarship, a collaboration with the Office of Newark Mayor Ras J. Baraka, and we continue to be recognized by U.S. News and World Report, PayScale, and other ranking organizations for our excellent return on investment that facilitates the upward socio-economic mobility of our students.

This Institutional Profile Report highlights NJIT’s continuing commitment to the State of New Jersey and to its citizens. All information supplied in this document is, to the best of my knowledge, complete and accurate.

Sincerely on behalf of NJIT,

Joel S. Bloom
President
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SECTION I – NEW JERSEY INSTITUTE OF TECHNOLOGY

New Jersey Institute of Technology (NJIT) was founded in 1881 as the Newark Technical School, becoming the Newark College of Engineering in 1930. Today, NJIT has six schools and colleges: Newark College of Engineering (1930), the College of Architecture and Design (1973), the College of Science and Liberal Arts (1982), the Martin Tuchman School of Management (1988), the Albert Dorman Honors College (1993), and the Ying Wu College of Computing (2001).

NJIT has evolved from a commuter school teaching applied engineering skills to a nationally ranked public research university. This evolution has been achieved through an aggressive faculty recruitment plan matched by an extensive building effort that doubled the size of the main campus over the past decade and added major research facilities for environmental engineering and science, advanced manufacturing, microelectronics and life sciences. Enrollment increased from 6,300 students in 1979 (the first year for which there is publicly available federal data) to over 11,600 students in the fall of 2020. Total research expenditures in fiscal year 2020 amounted to over $156 million.

At the same time, NJIT remains true to its urban mission and its commitment to helping motivated and talented students overcome educational challenges. In early 2018, Forbes ranked NJIT #1 among their Best Value Colleges for student economic upward mobility. That is, of Forbes’ Best Value Colleges, NJIT had the highest percentage of students from the bottom fifth of the income distribution moving into the top fifth. The study is based on an analysis by The Equality of Opportunity Project, comparing the financial status of a student’s family before they enter college and the graduate’s earnings after college.

NJIT’s 48-acre, computing-intensive, residential campus is located in the University Heights section of Newark, less than 10 miles from New York City and Newark International Airport. It is easily reached by interstate highways and public transportation. Graduate, undergraduate, and continuing education classes are offered at the main campus, at extension sites at colleges and other locations throughout New Jersey, and increasingly through a variety of electronically-mediated distance learning formats.
NJIT Mission Statement

NJIT, the state’s public polytechnic research university, is committed to excellence and global impact through:

- Education—preparing diverse students for positions of leadership as professionals and as citizens through innovative curricula, committed faculty, and expansive learning opportunities
- Research—advancing knowledge to address issues of local, national, and global importance with an emphasis on high impact basic, applied, and transdisciplinary scholarship
- Economic development—anticipating the needs of business, government, and civic organizations to foster growth, innovation, and entrepreneurship
- Engagement—applying our expertise to build partnerships, serve our community, and benefit society as a whole

These four elements guide NJIT in contributing solutions for the grand challenges of the future and improving the quality of life today.
SECTION II – DATA BY CATEGORY

A. Accreditation Status

II.A.1 Institutional Accreditation
New Jersey Institute of Technology as an institution is accredited by the following organization:

Middle States Commission on Higher Education (MSCHE)

II.A.2 Professional Accreditation
Association to Advance Collegiate Schools of Business (AACSB)
Accreditation Board for Engineering and Technology (ABET)
Council for Interior Design Accreditation (CIDA)
National Architectural Accrediting Board (NAAB)
National Association of Schools of Art and Design (NASAD)
II.A.3 Statement of Accreditation Status

STATEMENT OF ACCREDITATION STATUS

The Statement of Accreditation Status (SAS) is the official statement of the Middle States Commission on Higher Education (MSCHE) about each institution’s current accreditation status and scope of accreditation. The SAS also provides a brief history of the actions taken by the Commission.

Institution: NEW JERSEY INSTITUTE OF TECHNOLOGY Newark, NJ

Address: University Heights
          Newark, NJ 07102-1982

Phone: (973) 596-3000

URL: www.njit.edu

Accreditation Liaison Officer (ALO): Dr. Eugene Deess
Commission Staff Liaison: Dr. Melissa Hardin, Vice President

Accreditation Summary

For more information, see the Commission’s Accreditation Actions Policy and Procedures.

Phase: Accredited
Status: Accreditation Reaffirmed
Accreditation Granted: 1934
Last Reaffirmation: 2017
Next Self-Study Evaluation: 2021-2022
Next Mid-Point Peer Review: 2026

Alternative Delivery Methods

The following represents approved alternative delivery methods included in the scope of the institution’s accreditation:

Distance Education
Approved to offer programs by this delivery method

Correspondence Education
Not approved for this delivery method
## Credential Levels

### Approved Credential Levels

The following represents credential levels included in the scope of the institution's accreditation:

- **Bachelor's Degree or Equivalent**
  - Included within the scope:
- **Post-baccalaureate Certificate**
  - Included within the scope:
- **Master's Degree or Equivalent**
  - Included within the scope:
- **Doctor's Degree- Research/Scholarship**
  - Included within the scope:

## Locations

The following represents branch campuses, additional locations, and other instructional sites that are included within the scope of the institution's accreditation:

<table>
<thead>
<tr>
<th>Location</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beijing University of Technology</td>
<td>Additional Location</td>
</tr>
<tr>
<td>Beijing, China</td>
<td></td>
</tr>
<tr>
<td>NJIT @Jersey City</td>
<td>Additional Location</td>
</tr>
<tr>
<td>101 Hudson St</td>
<td></td>
</tr>
<tr>
<td>Jersey City, NJ 07302</td>
<td></td>
</tr>
<tr>
<td>Central High School (NPS)</td>
<td>Other Instructional Site</td>
</tr>
<tr>
<td>246-188th Avenue</td>
<td></td>
</tr>
<tr>
<td>Newark, NJ 07103</td>
<td></td>
</tr>
<tr>
<td>East Orange Board of Education</td>
<td>Other Instructional Site</td>
</tr>
<tr>
<td>199-4th Avenue</td>
<td></td>
</tr>
<tr>
<td>East Orange, NJ 07040</td>
<td></td>
</tr>
<tr>
<td>Essex County Vocational Technical Schools</td>
<td>Other Instructional Site</td>
</tr>
<tr>
<td>91 West Market Street</td>
<td></td>
</tr>
<tr>
<td>Newark, NJ 07103</td>
<td></td>
</tr>
<tr>
<td>High Point Regional High School</td>
<td>Other Instructional Site</td>
</tr>
<tr>
<td>209 Palpagon Hill Road</td>
<td></td>
</tr>
<tr>
<td>Sussex, NJ 07461</td>
<td></td>
</tr>
<tr>
<td>Hillside High School</td>
<td>Other Instructional Site</td>
</tr>
<tr>
<td>105 Virginia Street</td>
<td></td>
</tr>
<tr>
<td>Hillside, NJ 07205</td>
<td></td>
</tr>
<tr>
<td>John E. Dwyer Technology Academy</td>
<td>Other Instructional Site</td>
</tr>
<tr>
<td>123 Pearl Street</td>
<td></td>
</tr>
<tr>
<td>Elizabeth, NJ 07201</td>
<td></td>
</tr>
<tr>
<td>Manasquan High School</td>
<td>Other Instructional Site</td>
</tr>
<tr>
<td>167 Broad Street</td>
<td></td>
</tr>
<tr>
<td>Manasquan, NJ 08736</td>
<td></td>
</tr>
<tr>
<td>Morris County School of Technology</td>
<td>Other Instructional Site</td>
</tr>
<tr>
<td>403 East Main Street</td>
<td></td>
</tr>
<tr>
<td>Denville, NJ 07834</td>
<td></td>
</tr>
<tr>
<td>School Name</td>
<td>Address</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Mt. Olive High School</td>
<td>18 Corey Rd, Flanders, NJ 07836</td>
</tr>
<tr>
<td>New Brunswick Public Schools</td>
<td>269 Baldwin St, PO Box 2643, New Brunswick, NJ 08901-2643</td>
</tr>
<tr>
<td>Northern Highlands Regional High School</td>
<td>204 Hileside Avenue, Allendale, NJ 07402</td>
</tr>
<tr>
<td>Northern Valley Regional High School</td>
<td>162 Knickerbocker Rd, Demarest, NJ 07627</td>
</tr>
<tr>
<td>Passaic Valley Regional High School</td>
<td>East Main St, Little Falls, NJ 07424</td>
</tr>
<tr>
<td>Patterson School District - John F. Kennedy Complex</td>
<td>61-127 Pennsauken Ave, Patterson, NJ 08022</td>
</tr>
<tr>
<td>Rising Star Academy</td>
<td>4613 Cottage Place, Union City, NJ 07087</td>
</tr>
<tr>
<td>Roselle Park High School</td>
<td>510 Chestnut St, Roselle Park, NJ 07064</td>
</tr>
<tr>
<td>School District High School, Warren County Technical High School</td>
<td>1300 Route 37, Washington, NJ 07882</td>
</tr>
<tr>
<td>Sojourner High School</td>
<td>80 Duryea St, Newark, NJ 07103</td>
</tr>
<tr>
<td>St. Benedict's Preparatory</td>
<td>530 Dr Martin Luther King Jr Blvd, Newark, NJ 07103</td>
</tr>
<tr>
<td>Sojourner High School</td>
<td>80 Duryea St, Newark, NJ 07103</td>
</tr>
<tr>
<td>St. Benedict's Preparatory</td>
<td>520 Dr Martin Luther King Jr Blvd, Newark, NJ 07103</td>
</tr>
<tr>
<td>The Academy for Math, Science &amp; Engineering - Morris County</td>
<td>520 W Main St, Rockaway, NJ 07866</td>
</tr>
</tbody>
</table>
Definitions: For definitions of branch campus, additional locations, or other instructional sites, see the Commission’s Substantive Change Policy and Procedures.

Accreditation Actions

The following represents the MSCHE accreditation actions taken in the last ten (10) years. For more information, see the Commission’s Accreditation Actions Policy and Procedures and the Substantive Change Policy and Procedures.

June 17, 2020
To acknowledge receipt of the substantive change request. To note the institution’s decision to close the additional location at 1200 Old Trenton Road, Windsor, NJ 08550. To require immediate notification when instruction ceases at the additional location. To note that the Commission reserves the right to rescind approval of this substantive change if any developments reveal additional information that might have affected the Commission’s decision and/or the requested substantive change is not implemented within one calendar year from the date of this action. The next evaluation visit is scheduled for 2021-2022.

April 30, 2019
To acknowledge receipt of the substantive change request. To include the additional location at NJIT Jersey City, 101 Hudson Street, Jersey City, NJ 07302 within the institution’s scope of accreditation. To note that the Commission may rescind this action if instruction does not commence within one calendar year from the date of this action. The next evaluation visit is scheduled for 2021-2022.

November 16, 2017
To accept the Periodic Review Report, to reaffirm accreditation, and to confirm the institution for the quality of the report and the PRR process. The next evaluation visit is scheduled for 2021-2022.

July 5, 2017
To acknowledge receipt of the substantive change request. To include the additional location at Mercer County Community College, 1200 Old Trenton Road, Windsor, NJ 08550 within the scope of the institution’s accreditation. The Commission requires written notification within thirty days of the commencement of operations at this additional location. Operations at the additional location must commence within one calendar year from the date of this action. To note that the Periodic Review Report has been received and will be acted upon by the Commission at the November meeting.

March 6, 2014
To accept the progress report. The Periodic Review Report is due June 1, 2017.

August 1, 2013
To note the institution sever opened the additional locations in Kochi, India and Thrivunnatharam, India. To also note that approval has been granted to remove the contractual agreement with NeST Group of Companies and all additional locations from the institution’s accreditation.

June 28, 2012
To reaffirm accreditation. To request a progress report, due December 1, 2013, documenting evidence of steps taken to strengthen shared governance (Standard 4). The Periodic Review Report is due June 1, 2017.

February 28, 2012
To acknowledge receipt of the substantive change request and to include the contractual agreement with NeST Group of Companies and the additional locations in Kochi, India and Thrivunnatharam, India, provisionally within the scope of the institution’s accreditation, pending a site visit to one or more locations within six months of commencing operations. The Commission requires written notification within thirty days of the commencement of operations at these additional locations. In the event that operations at the additional locations do not commence within one calendar year from the approval of this action, approval will lapse. The next evaluation visit is scheduled for 2011-2012.
Information about the Middle States Commission on Higher Education

The Middle States Commission on Higher Education (MSCHE) is one of seven institutional accrediting organizations in the United States and is recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation (CHEA). MSCHE accreditation applies to an institution as a whole rather than the specific programs within an institution. MSCHE does not approve or accredit individual programs. The MSCHE accreditation review cycle is continuous and accreditation does not expire. Each institution is reevaluated and monitored on a regular and consistent basis in accordance with the institution’s assigned accreditation review cycle and Commission policy and procedures. An institution maintains its accreditation unless it is voluntarily surrendered or withdrawn by the Commission for cause, after the institution has been afforded due process. The institution’s current accreditation phase and accreditation status are displayed on the institution’s listing in the Institution Directory and in the Statement of Accreditation Status (SAS).
B. Number of Students Served

NJIT served 11,652 enrolled students in the fall of 2020.

II.B.1 Number of Undergraduate Students by Attendance Status

Table II.B.1
UNDERGRADUATE ENROLLMENT BY ATTENDANCE STATUS, FALL 2020

<table>
<thead>
<tr>
<th>Attendance Status</th>
<th>Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>7,389</td>
<td>81.3%</td>
</tr>
<tr>
<td>Part-time</td>
<td>1,695</td>
<td>18.7%</td>
</tr>
<tr>
<td>Total</td>
<td>9,084</td>
<td>100%</td>
</tr>
</tbody>
</table>

II.B.2 Number of Graduate Students by Attendance Status

Table II.B.2
GRADUATE ENROLLMENT BY ATTENDANCE STATUS, FALL 2020

<table>
<thead>
<tr>
<th>Attendance Status</th>
<th>Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>1,360</td>
<td>53.0%</td>
</tr>
<tr>
<td>Part-time</td>
<td>1,208</td>
<td>47.0%</td>
</tr>
<tr>
<td>Total</td>
<td>2,568</td>
<td>100%</td>
</tr>
</tbody>
</table>

II.B.4 FY2019 (12-Month) Unduplicated Enrollments

Table II.B.4
UNDUPLICATED ENROLLMENT, FY2020 (IPEDS 12-MONTH)

<table>
<thead>
<tr>
<th></th>
<th>Number</th>
<th>Credit Hours</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>10,275</td>
<td>239,203</td>
<td>7,973</td>
</tr>
<tr>
<td>Graduate</td>
<td>3,344</td>
<td>37,766</td>
<td>1,574</td>
</tr>
<tr>
<td>Total</td>
<td>13,619</td>
<td>276,969</td>
<td>9,547</td>
</tr>
</tbody>
</table>
C. Characteristics of Undergraduate Students

A total of 10,299 individuals applied for admission as first-time freshmen to NJIT for fall 2020.

II.C.1 Mean Math and Evidence-Based Reading & Writing SAT Scores

Fall 2020 freshmen entered NJIT as either regular admits or Educational Opportunity Fund (EOF) admits. By admitting students using different admissions categories, the university provides opportunities to a broader range of students.

Table II.C.1 contains information on the average SAT scores of NJIT’s fall 2020 enrolled full-time and part-time first-time freshmen. It should be noted that the first-time, full-time freshman population differs slightly from the cohort of first-time, full-time undergraduates who are tracked for federal reporting purposes using the IPEDS Graduation Rate Survey (GRS). This is because the IPEDS cohort also includes first-time, full-time students who are admitted above the freshman level because of advanced placement credits.

### Table II.C.1

**Mean Math, Reading, and Writing SAT Scores for First-Time Freshmen by Admission Status and Overall, Fall 2020**

<table>
<thead>
<tr>
<th></th>
<th>Full-Time Students</th>
<th>Part-Time Students</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ERW*</td>
<td>N</td>
</tr>
<tr>
<td>Regular Admits</td>
<td>631.7</td>
<td>854</td>
</tr>
<tr>
<td>EOF Admits</td>
<td>597.7</td>
<td>94</td>
</tr>
<tr>
<td>Special Admits</td>
<td>0.0</td>
<td>0</td>
</tr>
<tr>
<td>All Admits</td>
<td>628.3</td>
<td>948</td>
</tr>
<tr>
<td>Missing Scores</td>
<td></td>
<td>127</td>
</tr>
</tbody>
</table>

*Note: ERW is Evidence-Based Reading & Writing.
II.C.2 Enrollment in Remediation Courses by Subject Area

Only 0.4% percent of first-time, full-time students required remediation in English.

Table II C.2
Enrollment in Remediation Courses

Total Number of Undergraduate Students Enrolled in Fall 2020

<table>
<thead>
<tr>
<th>Total Fall 2020 Undergraduate Enrollment</th>
<th>Number of Students Enrolled in One or More Remedial Courses</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,084</td>
<td>14</td>
<td>0.2%</td>
</tr>
</tbody>
</table>

Total Number of First-time, Full-time (FTFT) Students Enrolled in Remediation in Fall 2020

<table>
<thead>
<tr>
<th>Total Fall Number of FTFT Students</th>
<th>Number of FTFT Students Enrolled in One or More Remedial Courses</th>
<th>Percent of FTFT Enrolled in One or More Remedial Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,129</td>
<td>5</td>
<td>0.4%</td>
</tr>
</tbody>
</table>

First-time, Full-time (FTFT) Students Enrolled in Remediation in Fall 2020 by Subject Area

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Number of FTFT Enrolled In:</th>
<th>Percent of FTFT Enrolled In:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computation</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Algebra</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Reading</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Writing</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>English</td>
<td>5</td>
<td>0.4%</td>
</tr>
</tbody>
</table>
II.C.3 Race/Ethnicity, Sex, and Age

In the fall of 2020, 11,652 students enrolled in various programs at New Jersey Institute of Technology. Seventy-eight percent (9,084) of these students enrolled at the undergraduate level.

Seventy-eight percent of undergraduates enrolled as full time, and 25% of undergraduates were female. The majority of undergraduates were from the state of New Jersey.

**Table II.C.3.a**
**Undergraduate Enrollment by Race/Ethnicity: Fall 2020**

<table>
<thead>
<tr>
<th></th>
<th>Full-Time</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Percent</td>
<td>N</td>
<td>Percent</td>
<td>N</td>
</tr>
<tr>
<td>White</td>
<td>2,479</td>
<td>33.5%</td>
<td>369</td>
<td>21.8%</td>
<td>2,848</td>
</tr>
<tr>
<td>Black</td>
<td>578</td>
<td>7.8%</td>
<td>124</td>
<td>7.3%</td>
<td>702</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1,512</td>
<td>20.5%</td>
<td>281</td>
<td>16.6%</td>
<td>1,793</td>
</tr>
<tr>
<td>Asian*</td>
<td>1,758</td>
<td>23.8%</td>
<td>214</td>
<td>12.6%</td>
<td>1,972</td>
</tr>
<tr>
<td>American Indian</td>
<td>12</td>
<td>0.2%</td>
<td>4</td>
<td>0.2%</td>
<td>16</td>
</tr>
<tr>
<td>Alien</td>
<td>623</td>
<td>8.4%</td>
<td>67</td>
<td>4.0%</td>
<td>690</td>
</tr>
<tr>
<td>Unknown</td>
<td>427</td>
<td>5.8%</td>
<td>636</td>
<td>37.5%</td>
<td>1,063</td>
</tr>
<tr>
<td>Total***</td>
<td>7,389</td>
<td>100.0%</td>
<td>1,695</td>
<td>100.0%</td>
<td>9,084</td>
</tr>
</tbody>
</table>

*Asian includes Pacific Islanders.
**Race Unknown includes Two or More Races.

**Table II.C.3.b**
**Undergraduate Enrollment by Sex: Fall 2020**

<table>
<thead>
<tr>
<th></th>
<th>Full-Time</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Percent</td>
<td>N</td>
<td>Percent</td>
<td>N</td>
</tr>
<tr>
<td>Male</td>
<td>5,560</td>
<td>75.2%</td>
<td>1,176</td>
<td>69.4%</td>
<td>6,736</td>
</tr>
<tr>
<td>Female</td>
<td>1,829</td>
<td>24.8%</td>
<td>519</td>
<td>30.6%</td>
<td>2,348</td>
</tr>
<tr>
<td>Total</td>
<td>7,389</td>
<td>100.0%</td>
<td>1,695</td>
<td>100.0%</td>
<td>9,084</td>
</tr>
</tbody>
</table>
Table II.C.3.c
UNDERGRADUATE ENROLLMENT BY AGE: FALL 2020

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Full-Time</th>
<th></th>
<th></th>
<th>Part-Time</th>
<th></th>
<th></th>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Percent</td>
<td>N</td>
<td>Percent</td>
<td>N</td>
<td>Percent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 18</td>
<td>17</td>
<td>0.2%</td>
<td>335</td>
<td>19.8%</td>
<td>352</td>
<td>3.9%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-19</td>
<td>2,142</td>
<td>29.0%</td>
<td>187</td>
<td>11.0%</td>
<td>2,329</td>
<td>25.6%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-21</td>
<td>2,671</td>
<td>36.1%</td>
<td>201</td>
<td>11.9%</td>
<td>2,872</td>
<td>31.6%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22-24</td>
<td>1,756</td>
<td>23.8%</td>
<td>446</td>
<td>26.3%</td>
<td>2,202</td>
<td>24.2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25-29</td>
<td>602</td>
<td>8.1%</td>
<td>305</td>
<td>18.0%</td>
<td>907</td>
<td>10.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-34</td>
<td>132</td>
<td>1.8%</td>
<td>116</td>
<td>6.8%</td>
<td>248</td>
<td>2.7%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35-39</td>
<td>43</td>
<td>0.6%</td>
<td>47</td>
<td>2.8%</td>
<td>90</td>
<td>1.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40-49</td>
<td>23</td>
<td>0.3%</td>
<td>39</td>
<td>2.3%</td>
<td>62</td>
<td>0.7%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50-64</td>
<td>3</td>
<td>0.0%</td>
<td>18</td>
<td>1.1%</td>
<td>21</td>
<td>0.2%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65 and more</td>
<td>0</td>
<td>0.0%</td>
<td>1</td>
<td>0.1%</td>
<td>1</td>
<td>0.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unknown</td>
<td>0</td>
<td>0.0%</td>
<td>0</td>
<td>0.0%</td>
<td>0</td>
<td>0.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total*</td>
<td>7,389</td>
<td>100.0%</td>
<td>1,695</td>
<td>100.0%</td>
<td>9,084</td>
<td>100.0%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Some totals will be higher than 100.0% due to rounding.
II.C.4 Numbers of Students Receiving Financial Assistance under Each Federal-, State-, and Institution-Funded Aid Program

During the 2019-2020 academic year, undergraduates at NJIT received financial aid from multiple sources, i.e. Federal, State, institution, and other private sources. Aid was provided in the form of scholarships, grants, loans, and waivers.

Table II.C.4
FINANCIAL AID FROM FEDERAL, STATE, & INSTITUTION-FUNDED PROGRAMS, AY2019-2020

<table>
<thead>
<tr>
<th>Federal Programs</th>
<th>Recipients</th>
<th>Dollars ($)</th>
<th>$ / Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pell Grants</td>
<td>3,560</td>
<td>17,090,000</td>
<td>4,800.56</td>
</tr>
<tr>
<td>College Work Study</td>
<td>390</td>
<td>620,000</td>
<td>1,589.74</td>
</tr>
<tr>
<td>Perkins Loans</td>
<td>0</td>
<td>0</td>
<td>--</td>
</tr>
<tr>
<td>SEOG</td>
<td>1,436</td>
<td>508,000</td>
<td>353.76</td>
</tr>
<tr>
<td>PLUS Loans</td>
<td>395</td>
<td>6,590,000</td>
<td>16,683.54</td>
</tr>
<tr>
<td>Stafford Loans (Subsidized)</td>
<td>3,377</td>
<td>14,553,000</td>
<td>4,309.45</td>
</tr>
<tr>
<td>Stafford Loans (Unsubsidized)</td>
<td>2,984</td>
<td>11,100,000</td>
<td>3,719.84</td>
</tr>
<tr>
<td>SMART &amp; ACG or Other</td>
<td>0</td>
<td>0</td>
<td>--</td>
</tr>
<tr>
<td>CARES ACT- HEERF Student Aid</td>
<td>1,987</td>
<td>3,269,000</td>
<td>1,645.19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>State Programs</th>
<th>Recipients</th>
<th>Dollars ($)</th>
<th>$ / Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Aid Grants (TAG)</td>
<td>2,917</td>
<td>23,268,000</td>
<td>7,976.69</td>
</tr>
<tr>
<td>Educational Opportunity Fund (EOF)</td>
<td>407</td>
<td>594,000</td>
<td>1,459.46</td>
</tr>
<tr>
<td>Other State Programs (OSRP, NJ-GIVS, WTC, etc.)</td>
<td>0</td>
<td>0</td>
<td>--</td>
</tr>
<tr>
<td>Distinguished Scholars</td>
<td>0</td>
<td>0</td>
<td>--</td>
</tr>
<tr>
<td>Urban Scholars</td>
<td>25</td>
<td>25,000</td>
<td>1,000.00</td>
</tr>
<tr>
<td>NJ STARS</td>
<td>27</td>
<td>55,000</td>
<td>2,037.04</td>
</tr>
<tr>
<td>NJCLASS Loans</td>
<td>123</td>
<td>1,615,000</td>
<td>13,130.08</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Institutional Programs</th>
<th>Recipients</th>
<th>Dollars ($)</th>
<th>$ / Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants/Scholarships</td>
<td>4,182</td>
<td>36,666,000</td>
<td>8,767.58</td>
</tr>
<tr>
<td>Loans</td>
<td>0</td>
<td>0</td>
<td>--</td>
</tr>
</tbody>
</table>
II.C.5 Percentage of Students Who Are New Jersey Residents

Ninety-one percent of first-time undergraduates were from the state of New Jersey in the fall 2020 cohort.

Table II.C.5
Fall 2020 First-Time Undergraduate Enrollment by State Residence

<table>
<thead>
<tr>
<th>State Residents*</th>
<th>Non-State Residents</th>
<th>Total</th>
<th>% State Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,089</td>
<td>101</td>
<td>1,190</td>
<td>91.5%</td>
</tr>
</tbody>
</table>

*Residence unknown included with New Jersey residents
D. Student Outcomes

The one-year retention rate of first-time, full-time freshmen (fall 2020 cohort) is 89%, and the six-year graduation rate has increased by 3% to a total of 70% for the fall 2014 cohort.

II.D.1 Graduation Rates

Table II.D.1.a

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Graduated in 4 Years</th>
<th>Graduated in 5 Years</th>
<th>Graduated in 6 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cohort Size</td>
<td>N</td>
<td>Percent</td>
</tr>
<tr>
<td>White</td>
<td>346</td>
<td>128</td>
<td>37.0%</td>
</tr>
<tr>
<td>Black</td>
<td>54</td>
<td>12</td>
<td>22.2%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>178</td>
<td>54</td>
<td>30.3%</td>
</tr>
<tr>
<td>Asian</td>
<td>245</td>
<td>139</td>
<td>56.7%</td>
</tr>
<tr>
<td>Alien</td>
<td>39</td>
<td>22</td>
<td>56.4%</td>
</tr>
<tr>
<td>Nat. Haw. or Pac. Isl.</td>
<td>1</td>
<td>1</td>
<td>100.0%</td>
</tr>
<tr>
<td>American Ind.</td>
<td>0</td>
<td>0</td>
<td>--</td>
</tr>
<tr>
<td>Two or More Races</td>
<td>37</td>
<td>16</td>
<td>43.2%</td>
</tr>
<tr>
<td>Unknown</td>
<td>30</td>
<td>10</td>
<td>33.3%</td>
</tr>
<tr>
<td>Total</td>
<td>930</td>
<td>382</td>
<td>41.1%</td>
</tr>
</tbody>
</table>

II.D.2 Third-Semester Retention Rates

Table II.D.2.a

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2019 First-Time Undergraduates</td>
<td>Retained in Fall 2020</td>
</tr>
<tr>
<td>1,299</td>
<td>1,153</td>
</tr>
</tbody>
</table>

E. Faculty Characteristics

A total of 444 full-time faculty (including tenured/tenure-track faculty and non-tenured University Lecturers) taught classes in Fall 2020.

II.E.1 Full-Time Faculty by Race/Ethnicity, Gender, and Tenure Status

Table II.E.1
FULL-TIME FACULTY BY RACE/ETHNICITY, SEX, TENURE STATUS AND ACADEMIC RANK: FALL 2020

<table>
<thead>
<tr>
<th></th>
<th>White</th>
<th>Black</th>
<th>Hispanic</th>
<th>Asian</th>
<th>Pacific Islanders</th>
<th>American Indian</th>
<th>Alien</th>
<th>Two or More Races</th>
<th>Race Unknown</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
<td>M</td>
<td>F</td>
<td>M</td>
<td>M</td>
<td>F</td>
<td>M</td>
<td>F</td>
<td>M</td>
</tr>
<tr>
<td>TENURED</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professors</td>
<td>66</td>
<td>9</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>0</td>
<td>33</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Associate</td>
<td>41</td>
<td>9</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>21</td>
<td>8</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assistant</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>All Others</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>107</td>
<td>18</td>
<td>6</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>54</td>
<td>13</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>WITHOUT TENURE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professors</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Associate</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assistant</td>
<td>19</td>
<td>14</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>14</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>All Others</td>
<td>59</td>
<td>34</td>
<td>2</td>
<td>0</td>
<td>10</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>80</td>
<td>49</td>
<td>2</td>
<td>0</td>
<td>11</td>
<td>2</td>
<td>19</td>
<td>7</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professors</td>
<td>67</td>
<td>9</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>0</td>
<td>33</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Associate</td>
<td>42</td>
<td>10</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>24</td>
<td>8</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Assistant</td>
<td>19</td>
<td>14</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>14</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>All Others</td>
<td>59</td>
<td>34</td>
<td>2</td>
<td>0</td>
<td>10</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>187</td>
<td>67</td>
<td>8</td>
<td>4</td>
<td>16</td>
<td>3</td>
<td>73</td>
<td>20</td>
<td>0</td>
<td>9</td>
</tr>
</tbody>
</table>
II.E.2 Percentage of Course Sections Taught by Full-Time Faculty

Table II.E.2
PERCENTAGE OF COURSE SECTIONS TAUGHT BY FULL-TIME FACULTY FALL 2020

<table>
<thead>
<tr>
<th></th>
<th>Taught by Full-Time Faculty</th>
<th>Taught by Part-Time Faculty</th>
<th>Taught by Others*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Number of Course Sections</strong></td>
<td>1711</td>
<td>862</td>
<td>50.4%</td>
</tr>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
<td>Number</td>
</tr>
<tr>
<td>Total</td>
<td>635</td>
<td>37.1%</td>
<td>214</td>
</tr>
</tbody>
</table>

* Others include Full-time Administrators and Teaching Assistants.
** Excludes Service Learning, Co-ops, Labs, Seminars, etc.

II.E.3 Ratio of Full- to Part-time Faculty

Table II.E.3
RATIO OF FULL-TIME TO PART-TIME FACULTY, FALL 2020

<table>
<thead>
<tr>
<th></th>
<th>Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of Full-time Faculty</td>
<td>444</td>
<td>56.4%</td>
</tr>
<tr>
<td>Total number of Part-time Faculty</td>
<td>343</td>
<td>43.6%</td>
</tr>
<tr>
<td>Total</td>
<td>787</td>
<td>100.0%</td>
</tr>
</tbody>
</table>
F. Characteristics of the Trustees or Governors

II.F.1 Race/Ethnicity and Sex (simultaneously)

Table II.F.1

<table>
<thead>
<tr>
<th>Race/Ethnicity and Sex</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>7</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>Black</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Asian</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>American Indian</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Non Resident Alien</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Unknown</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>10</td>
<td>3</td>
<td>13</td>
</tr>
</tbody>
</table>

II.F.2 List of Trustees/Governors with Titles and Affiliations

Table II.F.2

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hon. Philip D. Murphy, ex-officio</td>
<td>Governor</td>
<td>State of New Jersey</td>
</tr>
<tr>
<td>Hon. Ras J. Baraka, ex-officio</td>
<td>Mayor</td>
<td>City of Newark</td>
</tr>
<tr>
<td>Robert C. Cohen ’83, ’84, ’87 (Chair)</td>
<td>President, Digital Robotics and Enabling Technologies</td>
<td>Stryker Orthopaedics</td>
</tr>
<tr>
<td>Norma J. Clayton ’81 (Co-Vice Chair)</td>
<td>VP of Learning, Training &amp; Development (Retired)</td>
<td>The Boeing Company</td>
</tr>
<tr>
<td>Nicholas M. DeNichilo ’73, ’78 (Co-Vice Chair)</td>
<td>President &amp; CEO</td>
<td>Mott MacDonald</td>
</tr>
<tr>
<td>Diane Montalto ’82 (Co-Vice Chair)</td>
<td>President</td>
<td>DSA Engineering, LLC</td>
</tr>
<tr>
<td>Demetrios (Jim) Stamatis ’85 (Co-Vice Chair)</td>
<td>CEO</td>
<td>Louis Berger (A WSP Company)</td>
</tr>
<tr>
<td>Trustee Name</td>
<td>Position</td>
<td>Organization</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Joseph M. Taylor '11 (HON) (Co-Vice Chair)</td>
<td>Chairman and CEO (Retired), Managing Officer of the parent Panasonic Corporation</td>
<td>Panasonic Corporation of North America</td>
</tr>
<tr>
<td>Dr. Jason R. Baynes</td>
<td>Founding Member/Manager</td>
<td>Baynes Orthopaedics</td>
</tr>
<tr>
<td>Elisa Charters '92, '93</td>
<td>President</td>
<td>Latina Surge National</td>
</tr>
<tr>
<td>Gary C. Dahms PE, PP, CME</td>
<td>President and CEO</td>
<td>T&amp;M Associates</td>
</tr>
<tr>
<td>Kuo-Lin (Jordan) Hu '89</td>
<td>CEO</td>
<td>RiskVal Financial Solutions, LLC</td>
</tr>
<tr>
<td>Richard M. “Rich” Maser ’73</td>
<td>Executive Chairman</td>
<td>Maser Consulting P.A.</td>
</tr>
<tr>
<td>Dhiraj Shah ’00H</td>
<td>Founder and CEO</td>
<td>AVAAP</td>
</tr>
<tr>
<td>Dennis M. Toft, Esq.</td>
<td>Environmental, Regulatory Attorney</td>
<td>Chiesa Shahinian &amp; Giantomasi PC</td>
</tr>
</tbody>
</table>

II.F.3 URLs of Webpages with Information on Trustees/Governors

Table II.F.3
URL of Webpage with Information on Trustees

<table>
<thead>
<tr>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="https://www.njit.edu/boards/board-trustees-membership/">https://www.njit.edu/boards/board-trustees-membership/</a></td>
</tr>
</tbody>
</table>
G. Profile of the Institution

II.G.1 Degree and Certificate Programs

In fall 2020, NJIT students were enrolled in 20 Ph.D. programs, master’s programs in 46 specialties, 22 Post Baccalaureate Certificate programs and 51 active baccalaureate degree programs.

Table II.G.1
ACTIVE DEGREE AND CERTIFICATE PROGRAMS

College of Architecture and Design
- BA, Digital Design
- BA, Interior Design
- BAR, Bachelor of Architecture
- BS, Architecture
- BS, Industrial Design
- MAR, Master of Architecture
- MS, Architecture
- MS, Infrastructure Planning
- PhD, Urban Systems

College of Science and Liberal Arts
- BA, Biology
- BA, Communication and Media
- BA, History
- BA, Law, Technology & Culture
- BA, Theatre Arts & Technology
- BS, Applied Physics
- BS, Biochemistry
- BS, Biology
- BS, Biophysics
- BS, Chemistry
- BS, Communication & Media
- BS, Cyberpsychology
- BS, Environmental Science
- BS, Forensic Science
- BS, Mathematical Sciences
- BS, Science, Technology & Society
- CRT, Biotechnology
- CRT, Environmental Science
• CRT, Social Media Essentials
• CRT, Statistics for Data Science
• CRT, Technical Communication Essentials
• CRT, User Experience Essentials
• MS, Applied Mathematics
• MS, Applied Physics
• MS, Applied Statistics
• MS, Biology
• MS, Biostatistics
• MS, Chemistry
• MS, Environmental Science
• MS, Materials Science & Engineering
• MS, Pharmaceutical Chemistry
• MS, Professional & Technical Communication
• PHD, Applied Physics
• PHD, Biology
• PHD, Chemistry
• PHD, Environmental Science
• PHD, Materials Science and Engineering
• PHD, Mathematical Sciences

**Martin Tuchman School of Management**

• BS, Business
• CRT, Financial Technology
• CRT, Management Essentials
• CRT, Management of Technology
• MBA, Business Administration
• MS, Management
• PHD, Business Data Science

**Newark College of Engineering**

• BS, Biomedical Engineering
• BS, Chemical Engineering
• BS, Civil Engineering
• BS, Computer Engineering
• BS, Concrete Industry Management
• BS, Electrical Engineering
• BS, General Engineering
• BS, Industrial Engineering
• BS, Mechanical Engineering
- BS, Engineering Technology - Computer Technology
- BS, Engineering Technology - Concrete Industry Management
- BS, Engineering Technology - Construction Engineering Technology
- BS, Engineering Technology - Construction Management Technology
- BS, Engineering Technology - Electrical and Computer Engineering Technology
- BS, Engineering Technology - Manufacturing Engineering Technology
- BS, Engineering Technology - Mechanical Engineering Technology
- BS, Engineering Technology - Medical Informatics Technology
- BS, Engineering Technology - Surveying Engineering Technology
- BS, Engineering Technology - Technology Education
- CRT, Biomedical Device Development
- CRT, Construction Management
- CRT, Pharmaceutical Management
- CRT, Pharmaceutical Manufacturing
- CRT, Pharmaceutical Technology
- CRT, Project Management
- CRT, Power Systems Engineering
- CRT, Supply Chain Engineering
- CRT, Transportation Studies
- MS, Biomedical Engineering
- MS, Chemical Engineering
- MS, Civil Engineering
- MS, Computer Engineering
- MS, Critical Infrastructure
- MS, Electrical Engineering
- MS, Engineering Management
- MS, Engineering Science
- MS, Environmental Engineering
- MS, Healthcare Systems Management
- MS, Industrial Engineering
- MS, Internet Engineering
- MS, Manufacturing Systems Engineering
- MS, Materials Science & Engineering
- MS, Mechanical Engineering
- MS, Occupational Safety and Health Engineering
- MS, Pharmaceutical Engineering
- MS, Pharmaceutical Systems Management
- MS, Power and Energy Systems
- MS, Telecommunications
- MS, Transportation
- PHD, Biomedical Engineering
- PHD, Chemical Engineering
- PHD, Civil Engineering
- PHD, Computer Engineering
- PHD, Electrical Engineering
- PHD, Environmental Engineering
- PHD, Industrial Engineering
- PHD, Materials Science & Engineering
- PHD, Mechanical Engineering
- PHD, Transportation

**Ying Wu College of Computing**

- BA, Computer Science
- BA, Information Systems
- BS, Bioinformatics
- BS, Business & Information Systems
- BS, Computer Science
- BS, Computing & Business
- BS, Human Computer Interaction
- BS, Information Technology
- BS, Web & Information Systems
- CRT, Big Data Essentials
- CRT, Business and Information Systems Implementation
- CRT, Data Mining
- CRT, Data Visualization
- CRT, Information Security
- CRT, IT Administration
- CRT, Network Security and Information Assurance
- CRT, Software Engineering Analysis and Design
- CRT, Web Systems Development
- MS, Bioinformatics
- MS, Business & Information Systems
- MS, Computer Science
- MS, Computing & Business
- MS, Cyber Security and Privacy
- MS, Data Science
- MS, Information Systems
- MS, IT Administration & Security
- MS, Software Engineering
- PHD, Computer Science
- PHD, Information Systems
Accelerated Programs

- B.Arch./MBA
- B.Arch./MIP
- B.Arch./MS
- BA/BS/MPH with Rutgers School of Public Health (Master's in Public Health)
- BA/DMD with Rutgers School of Dental Medicine
- BA/DPT with Rutgers NJ Medical School (Physical Therapy)
- BA/JD
- BA/MD with American University of Antigua, West Indies
- BA/MD with Rutgers NJ Medical School
- BA/MD with St. George's University Grenada, West Indies
- BA/MD/MBA with American University of Antigua, West Indies
- BA/OD with State University of New York (SUNY) College of Optometry
- BA/PA with Rutgers NJ Medical School (Physician Assistant)
- BS/DDS
- BS/DMD
- BS/JD with Pace University Law School
- BS/JD with Seton Hall University School of Law
- BS/MBA
- BS/MD
- BS/MIP
- BS/MS
- BS/OD

Agreements with Secondary Schools

Bergen County Technical School, Bergen County Academies
Joint Advancement Standing Admissions Program

Parsippany-Troy Hills Township School District
Joint Advancement Standing Admissions Program

Staten Island Technical School
Qualified Staten Island Tech students will be admitted to the Albert Dorman Honors College

STEM Innovation Academy of the Oranges
Approved NJIT courses offered on site

Union County Vocational-Technical School District
UCVTS AIT and MHS students guaranteed admission into a parallel BS program at NJIT

Articulation Agreements with In-State, Two-Year Colleges

Bergen Community College
Applied Math, Biology, Biomedical Engineering, Business, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Industrial Engineering, Information Technology, Mechanical Engineering

**Bergen Community College Honors Program**
Albert Dorman Honors College

**Brookdale Community College**

**Burlington County College**
Business, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Electrical Engineering Technology, Industrial Engineering, Mechanical Engineering

**County College of Morris**
Business, Electrical Technology

**Essex County College**
Biology, Business, Chemistry, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, History, Industrial Engineering, Information Technology, Mechanical Engineering

**Hudson County Community College**
Business, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Electrical Technology, Industrial Engineering, Information Systems

**Mercer County Community College**
Business, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Computer Technology, Industrial Engineering, Mechanical Engineering, Surveying Technology

**Middlesex County College**
Business, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Electrical Engineering, Electrical Technology, Industrial Engineering, Manufacturing Engineering Technology, Mechanical Engineering

**Ocean County College**
Business, Civil Engineering, Computer Engineering, Electrical Technology, Mechanical Engineering, Surveying Technology

**Passaic County Community College**
Business, Engineering Technology

**Raritan Valley Community College**
Applied Mathematics, Biology, Business, Chemistry, Computer Science, Electrical Technology, Management

**Union County College**
Business, Chemical Engineering, Civil Engineering, Construction Engineering Technology, Computer Engineering, Computer Technology, Electrical Engineering
Engineering, Electrical Technology, Industrial Engineering, Mechanical Engineering, Mechanical Technology, Surveying Technology

Agreements with Out-of-State, Two-Year Colleges

**Lincoln Technical Institute**
A.A.S. degree students transfer to NJIT to pursue BS in Electrical Technology

**Rockland County College**
Electrical Engineering Technology

Agreements with U.S. Four-Year Colleges and Universities (Undergraduate)

**New Jersey City University**
3+2 Dual Degree Program for NJCU students majoring in Applied Physics to transfer to NJIT to pursue BS in Electrical Engineering

**New York Institute of Technology College of Osteopathic Medicine**
Early Interview Assurance Program

**Pace University**
Qualified NJIT students are admitted to Pace University School of Law

**Paul Smith College of Arts and Science**
2+2 program in Surveying Technology

**Ponce Health Sciences University**
Undergraduate program leading to BA-MD Degrees

**William Paterson University**
Students complete coursework in the Pre-Engineering program at WPU, then transfer to NJIT to pursue a degree in one of the engineering disciplines

**Stockton State College**
3+2 Liberal Arts/Engineering Dual Degree Program

**Thomas Edison State University**
ASAST students will pursue BS in Engineering Technology degree program at NJIT

**Rutgers University**
Qualified Albert Dorman Honors College students will enroll at the Rutgers School of Public Health to pursue the Masters in Public Health degree
Agreements with International Institutions

### UNDERGRADUATE

<table>
<thead>
<tr>
<th>Country</th>
<th>Institution</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>Technische Universitat Dortmund</td>
<td>Exchange</td>
</tr>
<tr>
<td>Italy</td>
<td>Universita degli Studi di Parma</td>
<td>Joint</td>
</tr>
<tr>
<td>Korea</td>
<td>Hanyang University</td>
<td>Exchange</td>
</tr>
<tr>
<td>Netherlands</td>
<td>University of Twente</td>
<td>Exchange</td>
</tr>
<tr>
<td>Sweden</td>
<td>Jonkoping University School of Engineering &amp; Business</td>
<td>Exchange</td>
</tr>
<tr>
<td></td>
<td>Linkoping University</td>
<td>Exchange</td>
</tr>
<tr>
<td>Turkey</td>
<td>Istanbul Technical University</td>
<td>Joint</td>
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### UNDERGRADUATE/GRADUATE

<table>
<thead>
<tr>
<th>Country</th>
<th>Institution</th>
<th>Type</th>
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<td>Antigua</td>
<td>American University of Antigua</td>
<td>Accelerated Degree Agreement</td>
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<tr>
<td>China</td>
<td>Beijing University of Technology</td>
<td>Exchange</td>
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<td></td>
<td>Fujian University of Technology</td>
<td>Joint/Exchange</td>
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<tr>
<td></td>
<td>Qingdao University of Technology</td>
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<tr>
<td></td>
<td>Wuchang University of Technology</td>
<td>Exchange</td>
</tr>
<tr>
<td>Egypt</td>
<td>Ain Shams University of Cairo and Ocean County College</td>
<td>Joint/Exchange</td>
</tr>
<tr>
<td>France</td>
<td>ESDES SKEMA</td>
<td>Joint/Exchange</td>
</tr>
<tr>
<td>Germany</td>
<td>Hochschule Bremen City University of Applied Sciences</td>
<td>Exchange</td>
</tr>
<tr>
<td></td>
<td>University Hochschule Furtwangen</td>
<td>Exchange</td>
</tr>
<tr>
<td>India</td>
<td>Indian Institute of Technology Gandhinagar</td>
<td>Exchange</td>
</tr>
<tr>
<td>Italy</td>
<td>L'Universita di Siena</td>
<td>Exchange</td>
</tr>
<tr>
<td>Jordan</td>
<td>Yarmouk University</td>
<td>Exchange</td>
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<tr>
<td>Korea</td>
<td>Pukyong National University</td>
<td>Exchange</td>
</tr>
<tr>
<td>Spain</td>
<td>University of Cantabria</td>
<td>Exchange</td>
</tr>
<tr>
<td></td>
<td>Universidad Pontificia Comillas</td>
<td>Exchange</td>
</tr>
<tr>
<td>Sweden</td>
<td>Jonkoping University School of Engineering and Business</td>
<td>Exchange</td>
</tr>
<tr>
<td>Taiwan</td>
<td>National Chiao Tung University</td>
<td>Exchange</td>
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## GRADUATE

<table>
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<th>Country</th>
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<tbody>
<tr>
<td>China</td>
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<td>Taizhou University</td>
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<td></td>
<td>Soochow University</td>
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<tr>
<td>Germany</td>
<td>Karlsruhe University of Applied Sciences</td>
<td>Exchange/Degree Joint</td>
</tr>
<tr>
<td></td>
<td>Universitat Passau</td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>Siksha O Anusandhan University</td>
<td>Joint</td>
</tr>
<tr>
<td>Italy</td>
<td>Politecnico di Bari</td>
<td>Joint</td>
</tr>
<tr>
<td></td>
<td>Universita degli Studi di Parma</td>
<td>Joint</td>
</tr>
<tr>
<td></td>
<td>Universita di Parma</td>
<td>Joint</td>
</tr>
<tr>
<td></td>
<td>Universita degli Studi di Salerno</td>
<td>Joint PhD</td>
</tr>
<tr>
<td>Lebanon</td>
<td>Lebanese American University</td>
<td>Exchange</td>
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H. Major Research and Public Service Activities

R&D Expenditures: Fiscal Year 2020

<table>
<thead>
<tr>
<th>Externally Funded R&amp;D Expenditures</th>
<th>$103,000,000</th>
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<tbody>
<tr>
<td>Total R&amp;D Expenditures</td>
<td>$156,000,000</td>
</tr>
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</table>

NJIT Research Institutes, Centers and Laboratories

NJIT is proud of its status as an “R1” Very High Research Activity doctoral institution according to the Carnegie Classification of Institutions of Higher Education. NJIT is one of only three R1 institutions in the state of New Jersey, along with Princeton University and Rutgers University – New Brunswick. The R1 classification is the result of NJIT’s growth in research in five transdisciplinary areas: Bioscience and Bioengineering, Data Science and Management, Environment and Sustainability, Material Science and Engineering, and Robotics and Machine Intelligence.

BIOSCIENCE AND BIOENGINEERING

INSTITUTES

Institute for Brain and Neuroscience Research
Dr. Namas Chandra and Dr. Farzan Nadim, Co-Directors

The Institute for Brain and Neuroscience Research (IBNR) focuses on collaborative basic, applied and translational neuroscience research addressing critical challenges in the interdisciplinary areas of brain health, neural engineering, neural circuits and patterns, neurophysiology, and computational neurobiology.

CENTERS

BioSensor Materials for Advanced Research & Technology (BioSMART Center)
Dr. Omowunmi "Wunmi" Sadik, Director

The mission of the BioSensor Materials for Advanced Research & Technology (BioSMART) Center is to understand how biological systems communicate with their surroundings by gathering data with sensors on their internal states and environments, measuring the information, and then using that knowledge to develop innovative sensing technologies that employ sustainable materials and greener environmental processes. BioSMART seeks to meet society’s need for fully autonomous, self-aware and resilient...
intelligent chemical and biological sensor systems by learning – and designing – from nature. Biological systems, without exception, are SMART sensors. Their behavior is the result of a complex web of interactions between sensory inputs and physiological processes that implements cognitive functions to allow the organism to perform efficiently. The BioSMART team has developed innovative biosensors for ultrasensitive detection of Staphylococci Enterotoxin B, the microorganisms that compose biofilms, nucleic acid mutations, E. coli, Bacillus globigii and numerous environmental pollutants: chromium VI; lead; polychlorinated biphenyls; microcystins; organophosphates; nitrobenzenes; and endocrine disrupting chemicals. One of our technologies has been translated to a portable, fully autonomous, remotely operated sensing device known as an Ultra-Sensitive Portable Capillary Sensor, or U-PAC. Some of our earlier sensors have been used for the detection of trace uranium and vanadium. Current projects include environmental sensors for COVID-19, pain biosensors, sustainable nanomaterials, biodegradable polymers, and new diagnostic tools and detection devices for medical, environmental and military applications. The wide range of intelligent sensor systems that can become commercial realities through advances pioneered by BioSMART will benefit society in antibiotic resistance monitoring, environmental analysis, wireless sensor networks, robotic sensors, bioremediation and point-of-use ‘smart’ systems.

**Center for Brain Imaging**  
*Dr. Bharat Biswal, Director*

The long-term goal of the Center for Brain Imaging is to better understand human brain function using integrative neuroimaging and statistical and computational modeling methods.

**Center for Injury Biomechanics, Materials and Medicine**  
*Dr. Namas Chandra, Director*

The Center for Injury Biomechanics, Materials and Medicine (CIBM3) is a multi- and interdisciplinary research center focused on understanding, diagnosing, and treating brain injuries and concussions using experimental and computational methods.

**Laboratories**

- Advanced Biomaterials Translation Laboratory
- BioDynamics Laboratory
- Cardiovascular Tissue Engineering and Stem Cell Laboratory
- Circadian Clock Laboratory
- Computational Neuroanatomy and Neuroinformatics Lab
- Computational Orthopedics and Rehabilitation Lab
- Coppélia Research Laboratory
- Ecohydrology Lab
- Fluid Locomotion Laboratory
- Global Change and Urban Ecology Lab
The Horax BioDatanamics Lab
The Keck Laboratory for Topological Materials
Laboratory of Evolutionary Pattern and Process
Laboratory of Neuroethology of Locomotion
Laboratory for Neurobiology and Behavior
Neural Engineering for Speech and Hearing Laboratory
Neural Prosthetics Laboratory
Neuroecology of Unusual Animals Laboratory
STG Lab
Structural Ecology Lab
Sensorimotor Quantification and Rehabilitation Laboratory
Swarm Lab
Vision and Neural Engineering Laboratory
Zebrafish Neural Circuits and Behavior Laboratory

DATA SCIENCE AND MANAGEMENT

INSTITUTES

Henry J. and Erna D. Leir Research Institute for Business, Technology and Society

Dr. Yi Chen, Director

The Leir Research Institute for Business, Technology and Society has an integrated, dual mission of innovative business research and targeted outreach necessary to realize the Institute’s overarching goal of helping business and industry to become more eco-efficient, resilient and sustainable.

Institute for Data Science

Dr. David Bader, Director

The Institute for Data Science initiates collaborative, inter-disciplinary research by bringing existing research centers in big data, medical informatics and cybersecurity together with new research centers in data analytics and artificial intelligence, cutting across all NJIT colleges and schools to conduct both basic and applied research.

New Jersey Innovation Institute

Simon Nynens, CEO

The New Jersey Innovation Institute (NJII) is an NJIT corporation focused on helping private enterprise meet the grand challenges shared across an entire sector while also helping individual companies innovate new product or market opportunities and develop new strategic business partnerships that embrace emerging technology. The five initial iLabs serving as the catalyst for collaboration among the academic, private, and public sectors are healthcare delivery systems, biotechnology and pharmaceutical production, civil infrastructure, defense and homeland security, and financial services.
**Centers**

**Center for Applied Mathematics and Statistics**  
Dr. Lou Kondic, Director  

The Center for Applied Mathematics and Statistics (CAMS) is an interdisciplinary research center dedicated to supporting research in the mathematical sciences focusing on modeling and simulations of the systems belonging to a general category of soft matter, including thin liquid films of nanoscale thickness, liquid crystals, granular matter and, more recently, colloids.

**Center for AI Research**  
Dr. Guiling Wnag, Director  

The Center for AI Research aims to provide an intellectual environment and primary home for AI research initiatives at NJIT. Its missions are listed as follows:  
1. To promote cutting-edge and high-quality research activities and to cultivate faculty and student publications and patents in AI and machine learning.  
2. To foster collaborations and interactions between professors in fundamental AI research and professors who leverage AI methods to solve domain problems and to develop synergies among research groups across different departments and colleges.  
3. To train postdoctoral researchers, graduate students, and undergraduate students in fundamental AI research as well as applied AI and prepare them to be skilled and capable workforce in both academia and industry.  
4. To improve the visibility of NJIT on AI research in the national and international levels.  
5. To facilitate the collaboration between NJIT and other institutions in both academia and industry.

**Center for Big Data**  
Dr. Chase Wu and Dr. Yi Chen, Co-Directors  

The mission of the Center for Big Data is to synergize the strong expertise in various disciplines across the NJIT campus and build a unified platform that embodies a rich set of big data-enabling technologies and services with optimized performance to facilitate research collaboration and scientific discovery.

**Center for Computational Heliophysics**  
Dr. Alexander Kosovichev, Director  

The primary goal of the Center for Computational Heliophysics is to develop data analysis and modeling tools in the area of heliophysics – the study and prediction of the Sun’s magnetic activity – by combining expertise from computer scientists in the Ying Wu College of Computing and from physicists and mathematicians in the College of Science and Liberal Arts. The Center works in partnership with NASA’s Advanced Supercomputing Division at the NASA Ames Research Center.
Cybersecurity Research Center
Dr. Kurt Rohloff and Dr. Reza Curtmola, Co-Directors

The Cybersecurity Research Center seeks to address ongoing and long-term future cybersecurity needs for protection and further economic development across the State of New Jersey, nationally, and internationally by developing new methods for understanding how modern cyber systems can be compromised and fail, how to design cyber systems so they are secure, and how to improve or fix the cyber infrastructure that has already been deployed.

Leir Center for Financial Bubble Research
Dr. William Rapp, Director

The Leir Center for Financial Bubble Research seeks to understand through quantitative and qualitative research how a financial bubble can be identified, including its stages of development, and what policies can best manage its impacts.

New Jersey Innovation Acceleration Center
Dr. Michael Ehrlich, Director

The New Jersey Innovation Acceleration Center (NJIAC) is a collaborative resource for entrepreneurs with a focus on helping ventures accelerate their development, achieving more rapid time to market and time to profitability milestones. Another goal of the center is to intensify the connections between the academic and entrepreneurial communities.

NSF iCorps Program Center
Dr. Michael Ehrlich, Director

The I-Corps Sites Program offers specialized training and mini-grants to teams with interest in exploring the commercial viability of their ideas for products and businesses that are based on their own inventions, University intellectual property, or any STEM-related technology. Grantees will embark on commercialization of new technologies, products and processes that arise from the institution. Develop formal, active, local innovation ecosystems that contribute to a large, national network of mentors, researchers, entrepreneurs and investors and encourages collaboration between academia and industry.

Paul Profeta Real Estate Technology, Design and Innovation Center (RETDIC)
Dr. Zhipeng Yan, Director

The Paul Profeta Real Estate Technology, Design and Innovation Center serves as the locus of research, teaching and training related to disruptive technologies innovations and novel design, service, management techniques that are actively transforming the real estate field. Housed in NJIT’s Martin Tuchman School of Management, and drawing on the expertise, experience and interests of faculty members from Tuchman School of Management as well as the Hillier College of Architecture and Design, Ying Wu College of Computing and the Newark College of Engineering, the center offers new academic
programs in Real Estate Technology, provides executive education, organizes conferences, symposia, and workshops related to cutting edge research in the changing ways in which real estate is traded, used and managed. The center’s transdisciplinary research activities focus on the use of technology and innovation, new ways of design and innovative business models with a special focus on the application of information technology and platform economics to real estate markets, also known as property technology, or PropTech.

**Structural Analysis of Biomedical Ontologies Center**

*Dr. Yehoshua Perl and Dr. James Geller, Co-Directors*

The Structural Analysis of Biomedical Ontologies Center (SABOC) is an interdisciplinary research center linking computer science and medicine, dealing specifically with medical terminologies and ontologies, a subject of study that is a sub-field of Medical Informatics.

**The Elisha Yegal Bar-Ness Center for Wireless Information Processing**

*Dr. Alexander Haimovich, Director*

The Elisha Yegal Bar-Ness Center for Wireless Information Processing (CWiP) researches diverse areas of communications, signal processing, and radar including cloud radio-access networks, cooperative networks, distributed radar, and acoustics communications.

**VentureLink**

*Simon Nynens, Executive Director*

VentureLink is a community hub for technology companies at all stages of development, providing companies with weekly programming, workspace, and expert mentorship.

**Laboratories**

- Advanced Communication And Signal Processing (aCASP) Research Lab
- Advanced Networking Laboratory
- Big Data Analytics Lab
- Design Computation Lab
- FinTech Lab
- Gidget Lab - (G)ender - (I)nclusive (D)esign, (G)ame, and (E)ducational (T)echnology Lab
- Geriatric Engineering Technology Lab
- The GIScience & Remote Sensing Lab
- High Performance Computing Laboratory
- Media Interface and Network Design Lab
- Networked Controls and Intelligent Diagnostics (NCID) Laboratory
- Networking Research Laboratory
- Laboratory for Discrete Event Systems
- Laboratory for High Performance DSP & Data Engineering Research (HPDER)
• Operations Management Laboratory
• Optimized Networking Laboratory
• Social Interaction Laboratory
• Systems Optimization and Analytics Lab

ENVIRONMENT AND SUSTAINABILITY

INSTITUTES

Institute for Space Weather Sciences
Dr. Haimin Wang, Director

The Institute for Space Weather Sciences (ISWS) combines the strengths of three NJIT research centers: Center for Solar-Terrestrial Research, Center for Computational Heliophysics, and Center for Big Data to understand and predict the physics of solar activities and their effects on space weather. ISWS integrates state-of-the-art observations, modeling, and big data analytics.

CENTERS

Center for Community Systems
Dr. Colette Santasieri, Director

The Center for Community Systems is a resource and conduit for creating thriving, sustainable and resilient communities. It is a strategic platform that connects innovative planners, engineers, environmental scientists, social scientists, architects and economists with government, industry and community organizations in order to solve complex problems. Communities exist within the context of varying and ever-evolving social, economic, political and cultural conditions. The pressures they experience include: increasing or decreasing populations; aging infrastructure, fiscal constraints, climate change, contaminated lands and natural and human-made disasters. These complexities and constraints may hinder a community’s ability to grow and prosper in a sustainable and resilient manner. The Center for Community Systems engages in cross-disciplinary collaborations designed to stimulate intellectual curiosity and foster innovative solutions to the challenges communities face. The center’s multi-disciplinary staff of professionals design, develop and deploy technical assistance and tools, resources, such as infographics on state regulatory rules, howto videos and case studies on brownfields redevelopment, and educational and engagement programs to communities to improve environmental conditions, spur economic development and advance social equity. The Center's focus areas include: brownfields redevelopment; community revitalization; transportation planning; land use planning; transit-oriented development; port-city relationships; and natural resources.
Center for Energy Efficiency, Resilience and Innovation (CEERI)
Dr. Haim Grebel, Director

The Center for Energy Efficiency, Resilience and Innovation (CEERI) conducts research and development, provides technical and educational assistance for the deployment of sustainable technologies and applications to manage energy and water resources, and promotes public awareness of energy resources. The activities of CEERI are interdisciplinary. With support from state, federal and business partners, CEERI’s main focus is identifying and implementing costeffective measures that reduce operating costs, environmental impacts in the deployment of sustainable technologies, and applications related to energy and water. The Center is a collaboration between industry and NJIT.

Center for Ethics and Responsible Research
Dr. Brit Holbrook, Director

The Center for Ethics and Responsible Research helps advance knowledge of how to ensure ethical and responsible research at a STEM-focused institute. NJIT serves as a test bed for tools and methods developed by the National Ethics Project (NEP). Through its partnership with NEP, NJIT transforms its approach to Ethical and Responsible Research (ER2) from its current state to a model for other institutions to emulate.

Center for Solar-Terrestrial Research
Dr. Andrew Gerrard, Director

The Center for Solar-Terrestrial Research (CSTR) is an international leader in ground- and space-based solar and terrestrial physics, with a particular interest in understanding the effects of the Sun on the geospace environment. CSTR is one of the principal investigators in NASA’s Van Allen Probes mission that explores the radiation and plasma environment around Earth, and houses the Space Weather Research Laboratory that conducts scientific research in the area of space weather with the mission to understand and forecast the magnetic activity of the Sun and its impact on Earth.

Center for Solar-Terrestrial Research – Big Bear Solar Observatory
Dr. Wenda Cao, Director

The Center for Solar-Terrestrial Research (CSTR) operates Big Bear Solar Observatory (BBSO) in California, which houses the highest-resolution solar optical telescope in the world at 1.6 meters. With its state-of-the-art adaptive optics and scientific instrumentation, the telescope obtains high-resolution views of the Sun’s surface features such as sunspots, filaments, faculae, granulation, spicules and jets.
Center for Solar-Terrestrial Research – Expanded Owens Valley Solar Array
Dr. Dale Gary, Director

The Center for Solar-Terrestrial Research (CSTR) operates the Expanded Owens Valley Solar Array in California, an array that consists of 15 antennae used to image solar flares at hundreds of frequencies within one second.

Otto H. York Center for Environmental Engineering and Science
Dr. Somenath Mitra, Director

The Otto H. York Center for Environmental Engineering and Science offers core and shared research laboratory facilities as a resource for many interdisciplinary research programs and initiatives including research projects in nanotechnology, drug delivery systems, particle engineering, microfluidics, membrane science, environmental science and engineering, and biomedical engineering.

Polar Engineering Development Center (PEDC)
Dr. Andrew Gerrard, Director

The Polar Engineering Development Center (PEDC), housed within NJIT’s Center for Solar-Terrestrial Research (CSTR), focuses on instrument and hardware design for deployment at high latitudes and Polar regions. Originally founded in the 1980s as part of the National Science Foundation-supported Automatic Geophysical Observatory (AGO) program, today the PEDC serves the broader astrophysical and geospace scientific communities conducting research in Polar environments, managing instruments at South Pole Station, McMurdo Station, Palmer Station and across the Antarctic ice shelf.

Laboratories

- Advanced Energy Systems and Microdevices Laboratory
- Atmospheric Chemistry Laboratory
- Building Dynamics Lab
- Building Energy and Built Environment (BE2) Lab
- Digital Spatial History Lab
- Energy and Environmental Nanotechnology Laboratory
- Environmental Systems Lab
- Geo-Resources and Geotechnical Laboratory
- Laboratory of Applied Biogeochemistry for Environmental Sustainability
- Laboratory of Environmental Microbiology and Biotechnology
- Newark Design Collaborative
MATERIAL SCIENCE AND ENGINEERING

CENTERS

Center for Building Knowledge
Deane Evans, Director

The Center for Building Knowledge (CBK) is dedicated to generating new knowledge to improve the built environment and enhance the planning, design, construction and operation of facilities, helping individuals and communities make better-informed decisions about the performance, sustainability, and resilience of buildings nationwide.

Center for Membrane Technologies
Dr. Kamalesh K. Sirkar, Director

The Center for Membrane Technologies investigates problems across multiple sectors that use membrane technologies to separate and purify water, air, industrial-fluid streams, solvents, pharmaceuticals, proteins, biopharmaceuticals, cells, particles, and nanoparticles.

Center for Natural Resources
Dr. Michel Boufadel, Director

The Center for Natural Resources investigates practical and efficient approaches to environmental and energy resource utilization, including assessment and remediation studies of pollution in natural settings and the evaluation of natural resources for the potential production of energy, especially renewable energy.

Center for Resilient Design
Deane Evans, Director

The Center for Resilient Design was established in the aftermath of Super Storm Sandy and has become a research, technical assistance, and training institution focused on improving the resilience of buildings and communities in the face of natural disasters and other stresses to inform and support disaster-resilience initiatives in other jurisdictions across the US and beyond.

Center for Structured Organic Particulate Systems (C-SOPS)
Dr. Rajesh Davé, Director

The Center for Structured Organic Particular Systems (C-SOPS) brings together a cross-disciplinary team of researchers from major universities to work closely with industry leaders and regulatory authorities to improve the way pharmaceuticals, foods and agriculture products are manufactured.
Center of Materials for Advanced Energetics

Dr. Edward L. Dreyzin, Director

Powders of metals are better fuels than hydrocarbons based on their volumetric and gravimetric combustion energy. They are used primarily in propellants, explosives and pyrotechnics. In this center, new metal-based reactive materials are developed, characterized and tested. Correlations between material synthesis processes and the powder characteristics are established and their reaction mechanisms are elucidated. The center includes laboratories for mechanochemistry and metal combustion and a state-of-the-art thermo-analytical facility. The center also conducts research in materials characterization facilities in York Center. Our work is supported by the Office of Naval Research, the Defense Threat Reduction Agency and the U.S. Army, among other sponsors. We invite students with backgrounds in chemical and mechanical engineering, physics, and materials science and engineering to explore research opportunities with us.

Electronic Imaging Center

Dr. Haim Grebel, Director

The Electronic Imaging Center is an interdisciplinary center focused on nanotechnology, spectral analysis with sub-wavelength structures, and energy.

Membrane Science, Engineering and Technology (MAST) Center

Dr. Kamalesh K. Sirkar, Director

The Membrane Science, Engineering and Technology Center, a National Science Foundation Industry/University Cooperative Research Center (I/UCRC), conducts basic research and related development on innovative materials and processes that facilitate the use of membrane technology.

New Energy Materials Research Center

Dr. Ken Chin, Director

The New Energy Materials Research Center is a public US corporation that recently awarded NJIT a three-year, $1.5M grant to establish a CdTe solar energy research center focused on improving the applications of CdTe semiconductor materials for use in thin-film solar modules.

New Jersey Center for Engineered Particulates (NJCEP)

Dr. Rajesh Davé, Director

Creation of advanced particulate materials and products through the engineering of particles is a major research focus of the New Jersey Center for Engineered Particulates (NJCEP).
LABORATORIES

- Additive Manufacturing Lab
- Applied Electrohydrodynamics Laboratory
- Biophotonics and Bioimaging Laboratory
- Biophotonics Sensing and Imaging Laboratory
- Complex Flows and Soft Matter Group
- Computational Biophysics Laboratory
- Computer Assisted Tissue Engineering and Blood System Biology Laboratory
- Computational Laboratory for Porous Materials
- Computational Nanomechanics and Materials Science Laboratory
- Heat and Fluid Transport Engineering Research Laboratory
- High Performance Concrete and Structures Laboratory
- Instructive Biomaterials & Additive Manufacturing Laboratory (IBAM-Lab)
- Laboratory for the Mechanics of Advanced materials
- Laboratory for Numerical Turbulence
- Laboratory of Nanomedicine and Healthcare Biomaterials
- Material Analysis in Biological Systems Laboratory
- Material Dynamics Lab
- Materials and Structures Laboratory
- Mixing Laboratory
- Mass Spectrometry Research Laboratory
- Nanoelectronics and Energy Conversion Laboratory
- Nanomaterials for Energy and Environment Labs (NEEL)
- Nano-Optoelectronic Materials and Devices Laboratory
- Opto and Microfluidics Laboratory
- Organic Reactions and Mechanisms Laboratory
- Particle Engineering and Pharmaceutical Nanotechnology Laboratory
- Soft Matter Research Laboratory
- Sustainable Environmental Nanotechnology and Nanointerfaces Laboratory
- Terahertz Spectroscopy, Imaging, and Wireless Communications Lab
- Tissue Engineering and Applied Biomaterials Laboratory
- Tissue Innervation and Muscle Mimetics Laboratory
ROBOTICS AND MACHINE INTELLIGENCE

CENTERS

Center for Rehabilitation Robotics
Dr. Sergei Adamovich, Director

NJIT and the Kessler Foundation are collaborators in the Rehabilitation Engineering Research Center (RERC), working on wearable robots for independent mobility and manipulation for individuals who have experienced spinal cord injuries, suffer from muscular dystrophy, or have suffered a stroke.

Intelligent Transportation Systems Resource Center
Dr. Lazar Spasovic, Director

The Intelligent Transportation Systems (ITS) Resource Center utilizes roadside sensing, information and communication technologies and integrates them into traffic-engineering and management practices with the goals of reducing congestion and improving the mobility, safety, and efficiency of the transportation system in support of sustainable regional growth and economic development.

LABORATORIES

- The Assistive and Intelligent Robotics Lab
- AI for Social Good Lab
- Controls, Automation, and Robotics Laboratory
- Face Recognition & Video Processing Laboratory
- Information Ecosystems Lab (InfEco)
- Intelligent Transportation Systems Laboratory
- Intelligible Information Visualization Lab
- Interactive Cross-Reality Lab
- The Lab of Interesting Agents
- Robotics and Data Lab
- Visual computing, Graphics, and Artificial intelligence (VGA) Lab
- Virtual Technology Applications Lab for Human Simulation (ViTALHS)
I. Major Capital Projects Completed in Fiscal Year 2020-2021

**Cullimore Lecture Hall - Total Project Budget $1.3M**
A complete renovation of the Cullimore Lecture Hall will be completed in late September 2021. The project included upgraded finishes, and new furniture, a new audiovisual system, additional power and high-capacity wireless connectivity will provide students a modern learning environment.

**Weston Lecture Hall 1 & 2 - Total Project Budget - $2.65M**
A complete renovation of the Weston Lecture Halls was completed in January 2021. The project included upgraded finishes, and new furniture, a new audiovisual system, additional power and high-capacity wireless connectivity will provide students a modern learning environment.
MEC 221 Lecture Hall - Total Project Budget - $750K
A complete renovation of the MEC 221 Lecture Hall was completed in Fall 2020. The project included upgraded finishes, and new furniture, a new audiovisual system, additional power and high-capacity wireless connectivity will provide students a modern learning environment.

Life Sciences and Engineering Center (LSEC), 3rd Floor Lab Renovations - Total Project Budget - $1.5M
Fit-out of the 3rd floor of LSEC consists of the Motion Capture Lab, Wet Lab and Computational Lab was completed in August 2020. The project included new casework, fume hoods, AV equipment, and furniture.
SECTION III – OTHER INSTITUTIONAL INFORMATION

The New Jersey Institute of Technology has exceptional faculty who educate top students for rewarding careers. In FY2020-2021, NJIT conferred 2,932 degrees and certificates, listed in Section A. Highlights of faculty efforts, including patents, publications and awards are provided in Section B.

A. Degrees Awarded

<table>
<thead>
<tr>
<th>Bachelors</th>
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<td>History</td>
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<td>Information Systems</td>
<td>10</td>
</tr>
<tr>
<td>Interior Design</td>
<td>8</td>
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<tr>
<td>Law, Technology, &amp; Culture</td>
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<tr>
<td>Theater Arts and Technology</td>
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<tr>
<td>BAR</td>
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<td>BET</td>
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<td>Construction Engineering Technology</td>
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<td>Construction Management Technology</td>
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<tr>
<td>Electrical &amp; Computer Engineering Technology</td>
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<tr>
<td>Mechanical Engineering Technology</td>
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<td>Medical Informatics Technology</td>
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<td>Surveying Engineering Technology</td>
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<td>Technology Education</td>
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<td>BGS</td>
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<td>Program</td>
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<td>General Engineering</td>
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<td><strong>Grand Total</strong></td>
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<td><strong>MS</strong></td>
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<td>Business &amp; Information Systems</td>
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<tr>
<td>Chemical Engineering</td>
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<td>Critical Infrastructure</td>
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<td>Cyber Security &amp; Privacy</td>
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<td>Data Science</td>
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<td>IT Administration &amp; Security Management</td>
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<td>Manufacturing Systems Engineering</td>
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<td>Materials Science &amp; Engineering</td>
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<td>Mathematical &amp; Computational Finance</td>
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<td>Mechanical Engineering</td>
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<td>Occupational Safety &amp; Health Engineering</td>
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<td>Pharmaceutical Chemistry</td>
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<td>Power and Energy Systems</td>
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<td>Professional &amp; Technical Communication</td>
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<td>Telecommunications</td>
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<td><strong>Grand Total</strong></td>
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## Doctoral Degrees Awarded

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<tr>
<th>Field</th>
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<td>Applied Physics</td>
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<td>Biology</td>
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<td>Biomedical Engineering</td>
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<tr>
<td>Business Data Science</td>
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<td>Chemical Engineering</td>
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<td>Chemistry</td>
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<td>Civil Engineering</td>
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<tr>
<td>Computer Engineering</td>
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<td>Environmental Science</td>
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<tr>
<td>Industrial Engineering</td>
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<td>Information Systems</td>
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<tr>
<td>Materials Science &amp; Engineering</td>
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<tr>
<td>Mathematical Sciences</td>
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<tr>
<td>Mechanical Engineering</td>
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<tr>
<td>Transportation</td>
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<tr>
<td>Urban Systems</td>
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<td><strong>Grand Total</strong></td>
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## Post Baccalaureate Certificates Degrees Awarded

<table>
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<tr>
<th>Certificate</th>
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<tbody>
<tr>
<td>Applied Statistical Methods</td>
<td>2</td>
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<tr>
<td>Big Data Essentials</td>
<td>10</td>
</tr>
<tr>
<td>Biomedical Device Development</td>
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<tr>
<td>Biostatistics Essentials</td>
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<td>Business Analytics</td>
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<td>Business and Information Systems Implementation</td>
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<tr>
<td>Construction Management</td>
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<td>Data Mining</td>
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<td>Data Science Statistics Track</td>
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<td>Data Visualization</td>
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<td>Environmental Science</td>
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<td>Finance for Managers</td>
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<td>Financial Technology</td>
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<tr>
<td>Information Security</td>
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<tr>
<td>Instructional Design, Evaluation &amp; Assessment</td>
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<tr>
<td>IT Administration</td>
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<td>Management Essentials</td>
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<td>Course</td>
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<td>Network Security and Information Assurance</td>
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<tr>
<td>Pharmaceutical Management</td>
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<td>Pharmaceutical Manufacturing</td>
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<td>Power Systems Engineering</td>
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<td>Project Management</td>
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<td>Social Media Essentials</td>
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<td>Software Engineering Analysis/Design</td>
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<td>Supply Chain Engineering</td>
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<td>Technical Communication Essentials</td>
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<td>Transportation Studies</td>
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<td>Web Systems Development</td>
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<td><strong>Grand Total</strong></td>
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</table>
B. Faculty

Faculty of the New Jersey Institute of Technology are productive in developing intellectual property, conducting research, and publishing and presenting scholarly research. Faculty receiving prestigious awards in 2020 and 2021 are listed below.

### III.B.1 Faculty & Administrator Awards 2020-2021

<table>
<thead>
<tr>
<th>Name</th>
<th>Award Description</th>
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<tbody>
<tr>
<td>M. Adams</td>
<td>Richard P. Nathan Public Policy Fellow</td>
</tr>
<tr>
<td>D. Bader</td>
<td>IEEE Computer Society Distinguished Visitor</td>
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<tr>
<td>S. Basu Roy</td>
<td>NSF CAREER</td>
</tr>
<tr>
<td>S. Basuray</td>
<td>IEEE Senior Member</td>
</tr>
<tr>
<td>Z. Celik</td>
<td>Fellow of American Society of Architectural Historians</td>
</tr>
<tr>
<td>R. Dave'</td>
<td>NAI Fellow</td>
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<tr>
<td>R. Dent</td>
<td>John C. Burnham Early Career Award</td>
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<td>P. Goode</td>
<td>AAS Fellow</td>
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<td>G. Gor</td>
<td>NSF CAREER</td>
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<tr>
<td>H. Kim</td>
<td>Distinguished Service Award by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)</td>
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<td>J. Kliewer</td>
<td>Fulbright</td>
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<td>L. Lanzerotti</td>
<td>AIAA James Van Allen Space Environments Award</td>
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<td>T. Narahara</td>
<td>2020 Human Communication Award from the Institute of Electronics, Information, and Communication Engineers (IEICE) Japan</td>
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<td>H. Nguyen</td>
<td>IEEE Senior Member</td>
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<td>H. Nguyen</td>
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<td>E. Soo Lee</td>
<td>NAI Senior Member</td>
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<tr>
<td>C. Wang</td>
<td>NSF CAREER</td>
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<td>C. Yaramothu</td>
<td>Fellow American Academy of Optometry</td>
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<td>M. Zhou</td>
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<td>M. Zhou</td>
<td>Edison Patent Award</td>
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