The New Jersey Institute of Technology that we know today has a rich history with its beginnings developing from the industrial age. Like many of the port cities around the world, the Newark of the late 19th century was a thriving industrial center. Its factories churned out thread, metals, paints and leather goods. In Newark, Thomas Edison set the stage at his Ward Street factory for his later achievements, and Edison rival Edward Weston established the first factory in the United States for commercial production of dynamo electric machines.

On March 24, 1880, the Essex County assemblyman in the state legislature introduced "An Act to Provide for the Establishment of Schools of Industrial Education." The Newark Board of Trade sponsored the bill. The act established three schools of industrial education: one in Newark, one in Trenton and one in Hoboken. The first Board of Trustees met July 1, 1884. The Newark Technical School opened Monday, February 9, 1885, with 88 students who attended despite a terrible snowstorm.

The first class, mostly evening students, attended classes in a rented building at 21 West Park Street. Soon the facility became inadequate to house an expanding student body. To meet the needs of the growing school, a second fundraiser — the institution's first capital campaign — was launched to support the construction of a dedicated building for Newark Technical School. In 1886, under the leadership of the school's dynamic first director, Dr. Charles A. Colton, the cornerstone was laid at the intersection of High Street and Summit Place for the three-story building later to be named Weston Hall in honor of the institution's early benefactor. A laboratory building, later to be called Colton Hall, was added to the campus in 1913. Daniel Hodgdon served as the director of Newark Technical School from 1918 to 1920.

Under Dr. Allan R. Cullimore, who led the institution from 1920 to 1949, the modest Newark Technical School was transformed into the Newark College of Engineering (NCE). Campbell Hall was erected in 1925. During the lean years of the Depression and World War II, only the former Newark Orphan Asylum, now Eberhardt Hall, was purchased and renovated by the college.

The postwar period was one of enormous activity during which President Cullimore — like today's post-Cold War university presidents — challenged the college to turn "wartime thinking into peacetime thinking."

In 1946, about 75% of the freshman class had served in the armed forces. Robert W. Van Houten was acting president of NJIT from 1947 until 1950 when the board of trustees named him president. Cullimore Hall was built in 1958 and two years later the old Weston Hall was razed and replaced with the current seven-story structure. Doctoral-level programs were introduced and six years later, in 1966, an 18-acre, four-building expansion was completed. William Hazell succeeded Dr. Van Houten as president of NJIT in 1970.

In 1973, with the addition of the New Jersey School of Architecture, the institution had evolved into a technological university, emphasizing a broad range of graduate and undergraduate degrees and dedication to significant research and public service. A stronger-than-ever Newark College of Engineering remained intact, but a new university name — New Jersey Institute of Technology — signified the institution's expanded mission.
A broadened mission called for the creation of a residential campus. The opening of NJIT’s first dormitory, Redwood Hall, in 1979 began a period of steady growth that continues today.

Under the leadership of Saul K. Fenster, who served as president of NJIT from 1978 to 2002, four new schools were established at the university: the College of Science and Liberal Arts in 1982; the School of Management in 1988; Albert Dorman Honors College in 1995; and the College of Computing Sciences in 2001. During the administration of Robert A. Altenkirch, who served from 2003 to 2011, the New Jersey School of Architecture was reconstituted as the College of Architecture and Design in 2008.

Joel S. Bloom, who served as president of NJIT from 2012 to 2022, saw the first phase of the Gateway Project completed in 2013. It included the creation of Warren Street Village, a three-acre, mixed-use residential housing complex that added 600 beds to NJIT’s existing inventory of residential housing.

The complex includes the Honors College Residence Hall and five duplex homes for NJIT’s Greek organizations, as well as dining services, a convenience store and fitness center for the university community.

On April 13, 2017, more than 200 students, alumni, faculty, staff and friends of the university witnessed the official ribbon cutting of the renovated Central King Building, part of a campus transformation designed to enhance the student experience and solidify NJIT’s position going forward as one of the nation’s leading public polytechnic universities.

On November 10, 2017, NJIT cut the ribbon for the 220,000-square-foot Wellness and Events Center. On December 11, 2017, NJIT officially opened its Makerspace, a large, well-equipped space for collaborative design and testing, featuring state-of-the-art machinery, including additive manufacturing equipment; CNC machines; a water jet; machinery for laser cutting, grinding and milling; and a large assortment of tools, devices, and metrology and precision measurement appliances. The 23,000-square-foot space is used for classes, design projects, team efforts and preparation for national competitions in the area of vehicle and drone design.

On November 9, 2018, NJIT launched its newest school, the School of Applied Engineering and Technology (SAET), within the university’s Newark College of Engineering. SAET encompasses NCE’s engineering technology programs in two divisions (Electrical and Mechanical Engineering Technology Division and the Built Environment Division); the baccalaureate degree General Engineering program; and a division focused on Engineering Education practice and research. SAET serves about 1,000 NJIT students.

On December 5, 2019, NJIT had a ribbon-cutting ceremony for its Microfabrication Innovation Center (MIC). The MIC houses advanced equipment and a cleanroom environment that provides a state-of-the-art facility for the fabrication of micro- and nonelectronic and microfluidic devices and sensors. These devices and sensors will transform technology across a range of areas and will accelerate work on smart devices. In the area of health care, for example, biomarker sensors may be developed that can communicate with medical information systems to support point-of-care diagnostics and therapeutic intervention.

Along with the York Center for Environmental Engineering and the Life Sciences Engineering Research Center, the MIC is an integral part of NJIT’s strategic effort to produce translational research on microchip and microfluidic devices with applications not only in health care, but in environmental technologies and advanced manufacturing.

In 2022, Teik C. Lim, a mechanical engineer and inventor, became the ninth president of NJIT. Dr. Lim, who also holds the title of Distinguished Professor of Mechanical Engineering, is internationally recognized as a leading scholar in the field of structural vibrations and acoustics as well as modeling and simulation technology. He was named a Fellow of the National Academy of Inventors in 2018.
COMMENCEMENT CEREMONY 2023

May Sixteenth
Two Thousand and Twenty-Three
10:00 a.m., 1:30 p.m., 5:00 p.m.
New Jersey Institute of Technology
Wellness and Events Center
Newark, New Jersey
Conferral of Master’s and Doctoral Degrees

May Nineteenth
Two Thousand and Twenty-Three
9:00 a.m.
Prudential Center
Newark, New Jersey
Conferral of Baccalaureate Degrees

Granted by the following colleges

Newark College of Engineering
J. Robert and Barbara A. Hillier College of Architecture and Design
College of Science and Liberal Arts
Martin Tuchman School of Management
Ying Wu College of Computing
COMMENCEMENT EXERCISES

COMMENCEMENT ADDRESSES
Master's Commencement Ceremony Honoring:
Newark College of Engineering and Martin Tuchman School of Management
Mansoor Ahsan, P.E., Chief Executive Officer, Bridgefarmer & Associates

Master's Commencement Ceremony Honoring:
College of Science and Liberal Arts, J. Robert and Barbara A. Hillier College of Architecture
and Design, and Ying Wu College of Computing
Asha Saxena, CEO and Founder, Women Leaders in Data and AI

Ph.D. Commencement Ceremony
Vincent L. DeCaprio, Ph.D. ’72, ’20 HON, Vice Chair Emeritus

Baccalaureate Commencement Ceremony
Kim Hanemann, President and Chief Operating Officer, PSE&G

STUDENT SPEAKERS
Baccalaureate Commencement Ceremony
Mark Nashed, Student Senate President

Ph.D. Commencement Ceremony
Audrey Biondi Kellogg, Ph.D.

STUDENT CEREMONIAL PARTICIPANTS
Master's and Ph.D. Class Crier
Daniel Mottern, Graduate Student Association President

Baccalaureate Class Crier
Gurleen Kaur, Senior Class President

National Anthem Singer
Debbie-Ann Spence ’23

AIR FORCE ROTC DETACHMENT 490 COLOR GUARD
Michael Advensky
Isaac Allen
Nolan Rollison
Michael Ruzzi

ALMA MATER SINGERS, NJIT GIGABEATS
Nana Asmah
Curtis Asral
Anushka Dixit
Maxwell Gregorio
Angie EL Hayek
Bruce Kirschbaum
Kie Li
Dale Nacianceno
Ryan Ryu
Frankie Vazquez
Eileen Yin

Information in this program is compiled prior to final certification of candidates for graduation. Only the diploma and certified transcript of each student are official documents which attest to the granting of a degree.
MASTER'S CEREMONIES
NJIT WELLNESS AND EVENTS CENTER
TUESDAY, MAY 16

Newark College of Engineering  
Kjell de Graaf

J. Robert and Barbara A. Hillier  
College of Architecture and Design  
Manushiben Patel

College of Science and Liberal Arts  
Kristian Nestor

Ying Wu College of Computing  
Swathi Kumar Venkatesh

PH.D. CEREMONY
NJIT WELLNESS AND EVENTS CENTER
TUESDAY, MAY 16

Newark College of Engineering  
Ludvik Alkhoury

J. Robert and Barbara A. Hillier  
College of Architecture and Design  
Esther Zipori

College of Science and Liberal Arts  
Elizabeth Cronin

Ying Wu College of Computing  
Firas Gerges

Martin Tuchman School of Management  
Pelin Ayranci

BACCALAUREATE CEREMONY
PRUDENTIAL CENTER
FRIDAY, MAY 19

Albert Dorman Honors College  
Elizabeth Kowalchuk

Newark College of Engineering  
Ymer Dinoshi

J. Robert and Barbara A. Hillier  
College of Architecture and Design  
Constance Chu

College of Science and Liberal Arts  
Paolo Elguera Grandez

Alumni Association  
Vatsal Shahm '08H, '09, '15

Martin Tuchman School of Management  
Muhammad Waleed Cheema

Listing of the Candidates for Doctoral degrees begins on page 9.  
Listing of Candidates graduating with Master's degrees begins on page 26.  
Listing of Candidates graduating with Baccalaureate degrees begins on page 36.  
Listing of the Albert Dorman Honors College Scholars appears on page 51.  
Listing of Candidates graduating with Academic Honors appears on page 52.  
Listing of Veterans who served in the Armed Forces appears on page 59.
By its charter, New Jersey Institute of Technology is empowered to confer honorary degrees upon individuals of distinguished achievement in recognition of their personal and professional accomplishments and their contributions to society.
THE DEGREE OF DOCTOR OF SCIENCE, *HONORIS CAUSA*
Presented to
MARTIN TUCHMAN B.S. ME ’62
BOARD OF OVERSEERS (2002–CURRENT)

Martin Tuchman is Chairman and Chief Executive of the Tuchman Group, a firm with holdings in real estate, banking, and international shipping. During his time at the Railway Express Agency, he worked with a group of engineers at the American National Standards Institute to create the current standards for intermodal shipping containers and chassis.

Tuchman co-founded Interpool, one of the nation’s leading container leasing companies, and later formed Trac Lease, the largest chassis leasing company in the U.S. Along with his partner, he sold both companies in 2007 for $2.4 billion.

He has served on the Board of Directors of FTAI Aviation Ltd., a NASDAQ listed company, since 2015. In banking, Tuchman served on the Board of Directors of Yardville National Bank and as Chairman of the Board of First Choice Bank. He is currently on the Board of Directors of the Bank of Princeton, a community bank with over $1 billion in assets.

As Chairman of the Tuchman Foundation, he is active in Parkinson’s disease philanthropy and works with organizations such as the Michael J. Fox Foundation, The Parkinson Alliance, and Parkinson’s Unity Walk to raise funds and secure National Institutes of Health research grants. Tuchman is also on the board of the Trenton Area Soup Kitchen.

Tuchman was named Entrepreneur of the Year by Ernst & Young and, while at Interpool, earned a Grand Prize in Cisco’s Growing with Technology Awards program. He also received the Smithsonian Institute’s Hero Medal and oversaw the inclusion of Interpool’s material as part of the National Museum of American History. Additionally, the Beta Gamma Sigma International Business Honor Society awarded Tuchman its coveted Business Achievement Award, an honor he was nominated for by Seton Hall University’s Stillman School of Business in 2011.

The Tuchman Foundation, in partnership with University Hospital in Newark and NJIT, was responsible for the design, construction, and financing of the Mobile Medical Care Unit project, for which modified shipping containers were repurposed as triage centers for coronavirus testing in 2020.

Tuchman earned a bachelor’s degree in mechanical engineering from New Jersey Institute of Technology and a master’s degree in business administration from Seton Hall University. A recipient of NJIT’s Alumni of the Year Award, he has been a member of the university’s Board of Trustees, is currently on its Board of Overseers, and serves as a member of NJIT’s Joint Investment Committee. NJIT’s School of Management, which shapes students to become technology leaders and managers, was named in his honor as the Martin Tuchman School of Management.
THE DEGREE OF DOCTOR OF SCIENCE, HONORIS CAUSA
Presented to
DEACON PETER CISTARO B.S. IE ’68
NJIT BOARD OF TRUSTEES (2001-2021)

Peter Cistaro was born to Peter and Margaret Cistaro and raised in Elizabeth, N.J. He attended the Newark College of Engineering where he earned a bachelor’s degree in industrial engineering in 1968. Immediately after graduation, Cistaro started his career with Public Service Electric and Gas Company (PSE&G). During his almost 40 years at PSE&G, he held a variety of management and executive positions in gas distribution operations, labor relations, marketing, and total quality management. In 2007, he retired as the company’s Vice President for Gas Delivery.

Cistaro earned a master’s degree in business administration from Fairleigh Dickinson University and participated in the Public Utility Executive Program at the University of Michigan and the Program for Management Development at Harvard University.

He held leadership positions in several natural gas industry organizations, including Trustee of the Gas Research Institute, Chairman of the Operating Section of the American Gas Association, and Chairman of the Distribution Committee of the International Gas Union. In addition, Cistaro served on the boards of several philanthropic organizations including the New Jersey State Safety Council, the March of Dimes, the American Red Cross, and Newark Beth Israel Medical Center.

In 2001, Cistaro was appointed as a member of the Board of Trustees of the New Jersey Institute of Technology, where he served for 20 years. During his tenure, he served as Chairman for the board’s Advancement and Nominating Committees. As an alumnus dedicated to supporting students, he has funded the Peter A. Cistaro ’68 Family Endowed Scholarship since 2007.

In 2009, Cistaro was ordained a Deacon in the Roman Catholic Church and currently ministers at Saint Peter the Apostle Church in Parsippany, N.J. He has been serving as the Director of Deacons for the Diocese of Paterson since 2014. He is also a member of the Diocesan Pastoral Council, a Trustee of Catholic Charities in the Diocese of Paterson, and a Trustee for two low-income, senior housing projects in Paterson: Martin de Porres Village and RIESE Housing Corporation.

Cistaro was married to his first wife, Josephine, for 25 years, before she passed away. He has been married to Mary Ann for 24 years. They currently reside in Boonton, N.J. and have four adult married children and nine grandchildren.
Kim Hanemann was named President and Chief Operating Officer of Public Service Electric and Gas Company (PSE&G), effective June 30, 2021. Headquartered in Newark, N.J., PSE&G is one of the largest combined electric and gas companies in the United States and New Jersey’s oldest and largest publicly owned utility, serving approximately 2.6 million customers, nearly three-quarters of the state’s population. PSE&G is a subsidiary of Public Service Enterprise Group (PSEG) of which she is a member of the Senior Executive Team.

Previously, Hanemann was PSE&G’s Senior Vice President and Chief Operating Officer. In that role, she was responsible for PSE&G’s electric, gas and customer operations, as well as the company’s asset management and centralized services organization. She also oversaw the on-time, on-scope, and on-budget execution of the company’s large construction projects.

Prior to being named Chief Operating Officer in January 2020, Hanemann held numerous leadership positions in both electric and gas field operations, as well as in utility support operations. She is a member of the Board of Directors of Middlesex Water Co., the New Jersey Chamber of Commerce, and the New Jersey Utilities Association. Additionally, she is a member of the Board of Trustees of Children’s Specialized Hospital.

Hanemann graduated from Lehigh University with a bachelor’s degree in mechanical engineering and received a master’s degree in business administration from the Rutgers Graduate School of Management.
THE HASHIMOTO PRIZE
Presented to
RAVI TEJA VELPULA ’22

Over a distinguished lifetime, Kazuo Hashimoto garnered more than 1,000 patents and applications related to his invention of the telephone answering machine and other technical devices in electronics and telecommunications. One hundred of these were awarded in the United States alone. He was a recipient of Japan’s Medal of Honor, the Yellow Ribbon, and was one of the select individuals in his country esteemed as a Living National Treasure.

New Jersey Institute of Technology, in recognition of his extraordinary body of creative work and his encouragement of invention, awarded him the degree of Doctor of Science, honoris causa, at these ceremonies in 1994.

In May of 1995, the Hashimoto Endowment was established at NJIT through the generosity and vision of Dr. Hashimoto, who found this university to provide an environment in which applied research and scholarship flourish.

A key element of the endowment’s purpose is the annual award of the Hashimoto Prize to a doctoral candidate in electrical or computer engineering who has demonstrated high achievement and promise in the field.

New Jersey Institute of Technology is proud to announce the recipient of the Hashimoto Prize is Ravi Teja Velpula ’22, an outstanding scholar who has earned the degree of Doctor of Philosophy through distinguished scholarship and research in electrical and computer engineering.
CANDIDATES FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

APPLIED PHYSICS
(Degree conferred jointly by NJIT and Rutgers-Newark, Newark, New Jersey)

* Christopher M. Bolton
Dissertation:
Monostatic Electromagnetic Reflection Enhancement by Printed Metallic Structures
Advisors:
John F. Federici, Ph.D.
Ian Gatley, Ph.D.

† Yi Chai
Dissertation:
Waves and Oscillations in a Sunspot: Observations and Modeling of NOAA AR 12470
Advisor:
Dale E. Gary, Ph.D.

Matthew Cooper
Dissertation:
Large-Scale and Meso-Scale Ion Dynamics of the Near-Earth Space Environment
Advisor:
Andrew J. Gerrard, Ph.D.

* Adrien P. Genoud
Dissertation:
Photonic Monitoring of Atmospheric Fauna
Advisor:
Benjamin Thomas, Ph.D.

† Nian Liu
Dissertation:
Understanding the Role of Magnetic Field Evolution in the Initiation and Development of Solar Eruptions
Advisors:
Haimin Wang, Ph.D.
Ju Jing, Ph.D.

† Yingjie Luo
Dissertation:
Advisor:
Bin Chen, Ph.D.

† — August 2022 graduates
* — December 2022 graduates
John T. Stefan  
Dissertation: 
*Helioseismic Diagnostics of Active Regions and Their Magnetic Fields*  
Advisor:  
Alexander G. Kosovichev, Ph.D.

Yuqian Wei  
Dissertation: 
*Coronal Magnetometry and Energy Release in Solar Flares*  
Advisors:  
Bin Chen, Ph.D.  
Haimin Wang, Ph.D.

Yanxing Yang  
Dissertation: 
*Interactions of Amyloid Peptides with Lipid Membranes*  
Advisor:  
Cristiano L. Dias, Ph.D.

BIOLOGY  
(Degree conferred jointly by NJIT and Rutgers-Newark, Newark, New Jersey)

Elizabeth M. Cronin  
Dissertation: 
*Flexibility vs Consistency: Quantifying Differences in Neuromodulatory Elicited Patterns of Activity*  
Advisors:  
Dirk Bucher, Ph.D.  
Farzan Nadim, Ph.D.

Audrey Biondi Kellogg  
Dissertation: 
*Biologically Inspired Fin for Underwater Robotics: A Study of Mola Mola Swimming Mechanics*  
Advisor:  
Brooke E. Flammang, Ph.D.

Subash Kusum Ray  
Dissertation: 
*Brainless but Smart: Investigating Cognitive-Like Behaviors in the Acellular Slime Mold Physarum Polycephalum*  
Advisor:  
Simon Garnier, Ph.D.
Christine Sosiak
Dissertation:
How to Survive a Mass Extinction: Detangling Drivers of Extinction in Deep Time
Advisor:
Phillip M. Barden, Ph.D.

BIOMEDICAL ENGINEERING
(Degree conferred jointly by NJIT and Rutgers Biomedical and Health Sciences, Newark, New Jersey)

* Ozan Cakmak
Dissertation:
Improving the Stimulation Selectivity in the Human Cochlea by Strategic Selection of the Current Return Electrode
Advisor:
Mesut Sahin, Ph.D.

Meng Cao
Dissertation:
Neural Correlates of Post-Traumatic Brain Injury (TBI) Attention Deficits in Children
Advisors:
Xiaobo Li, Ph.D.
Tara L. Alvarez, Ph.D.

† Esma Cetinkaya
Dissertation:
Sensorimotor Content of Multi-Unit Activity in the Paramedian Lobule of the Cerebellum
Advisor:
Mesut Sahin, Ph.D.

† Vishnu Deep Chandran
Dissertation:
Decoding Human Movement Through Experiments and Simulation
Advisor:
Saikat Pal, Ph.D.

Naphtaly Ehrenberg
Dissertation:
Biomechanical and Psychophysical Underpinnings of Balance Dysfunction in Individuals with Traumatic Brain Injury (TBI)
Advisors:
Sergei Adamovich, Ph.D.
Karen Nolan, Ph.D.
Michael Hanna
Dissertation:
*Elucidating the Link Between Cytoskeleton and Altered Calcium Signaling Post Traumatic Brain Injury*
Advisor:
Bryan J. Pfister, Ph.D.

* Apurva N. Limaye
Dissertation:
*Naturally Derived Fibrous Scaffolds Containing Metabolic Factors for Bone Tissue Engineering*
Advisor:
Treena Livingston Arinzeh, Ph.D.

† Ashley Joyce MontJohnson
Dissertation:
*Development and Evaluation of a Hand Exoskeleton for Neurorehabilitation Post Stroke*
Advisor:
Sergei V. Adamovich, Ph.D.

* Zain Siddiqui
Dissertation:
*Angiogenic Supports for Microvascular Engineering*
Advisor:
Vivek A. Kumar, Ph.D.

Scott Stratton
Dissertation:
*A Piezoelectric Gelatin Scaffold for Schwann Cell-Induced Spinal Cord Repair*
Advisor:
Treena L. Arinzeh, Ph.D.
BUSINESS DATA SCIENCE

† Pelin Ayranci
Dissertation:
Passive Interpretable Deep Learning from Cell Phone Activity for Mental Healthcare
Advisors:
Cesar Bandera, Ph.D.
Hai Phan, Ph.D.

† Colette Therese Malyack
Dissertation:
Integration of Customer Preference to Smart Locker Location Planning for Last Mile Delivery Optimization
Advisor:
Pius J. Egbelu, Ph.D.

* Jiali Wang
Dissertation:
Twitter Sentiment Analysis: Applications in Healthcare and Finance
Advisor:
Zhipeng Yan, Ph.D.

CHEMICAL ENGINEERING

Alina Emelianova
Dissertation:
Molecular Simulations of Mechanical Effects of Adsorption in Gas and Liquid Phases
Advisor:
Gennady Y. Gor, Ph.D.

* Gulenay Guner
Dissertation:
Microhydrodynamic, Kinetic and Thermal Modeling of Wet Media Milling for Process Optimization and Intensification
Advisors:
Ecevit A. Bilgili, Ph.D.
Lisa B. Axe, Ph.D.

* Andrew House
Dissertation:
A Novel Biomaterial Platform for Cardiac Tissue Engineering
Advisor:
Murat Guvendiren, Ph.D.
Siming Huo
Dissertation:
Cu/BNx Catalysts for Electrocatalytic Reduction of Nitrogen and Nitrate Waste
Advisor:
Xianqin Wang, Ph.D.

Sangah S. Kim
Dissertation:
Direct Blend-Direct Compaction (DB-DC) Formulations Enabled Through Reduced API Cohesion and Agglomeration via Dry Coating
Advisor:
Rajesh N. Davé, Ph.D.

Zhongyu Li
Dissertation:
Development of Non-Viral Nano-Carriers for Gene Delivery and COVID-19 Vaccines
Advisor:
Xiaoyang Xu, Ph.D.

Nontawat Muanpaopong
Dissertation:
PBM and DEM Simulations of Large-Scale Closed-Circuit Continuous Ball Milling of Cement Clinker
Advisors:
Ecevit Bilgili, Ph.D.
Rajesh N. Davé, Ph.D.

* Aida López Ruiz
Dissertation:
Platinum Nanoparticles, Targeted Therapy for Triple Negative Breast Cancer
Advisors:
Kathleen McEnnis, Ph.D.
Prateek Shekhar, Ph.D.

† Nguyen Nhat Anh Tong
Dissertation:
Addressable Microfluidics Platform for Minimally-Invasive Manipulation of Cells and Chemicals Within Live Cultures
Advisor:
Roman S. Voronov, Ph.D.
* Baran Teoman  
Dissertation:  
*Hydrodynamic Investigation of the Discharge of Complex Fluids from Dispensing Bottles Using Experimental and Computational Approaches*  
Advisor:  
Piero M. Armenante, Ph.D.

† Peter S. Totaro, Jr.  
Dissertation:  
*Effect of Current Density Ramping on the Anodic Reaction and Morphology of Aerospace Aluminum Alloys*  
Advisor:  
Boris Khusid, Ph.D.

CHEMISTRY

* Jie Dou  
Dissertation:  
*Amphiphilic Block Copolymers and the Applications in Therapeutics Delivery*  
Advisor:  
Yuanwei Zhang, Ph.D.

Gaddi Baffoe Eshun  
Dissertation:  
*Sustainable Nanomaterials for Sensing and Antimicrobial Characterization*  
Advisor:  
Omowunmi Sadik, Ph.D.

* Ali Hasani  
Dissertation:  
*Combustion Soot Nanoparticles: Mechanism of Restructuring and Mechanical Properties*  
Advisor:  
Alexei Khalizov, Ph.D.

Daniel Kasungi Isika  
Dissertation:  
*Design, Synthesis, Biological and Computational Studies of Flavonoid Acetamide Derivatives*  
Advisor:  
Omowunmi Sadik, Ph.D.
Mohammad Saiful Islam
Dissertation:
Development of Novel Hybrid Structure for Fast Dissolution of Hydrophobic Drugs
Advisor:
Somenath Mitra, Ph.D.

Xiaokai Zhang
Dissertation:
V-Shaped Temperature Dependences and Pressure Dependence of Elementary Reactions of Hydroxyl Radicals with Several Organophosphorus Compounds
Advisor:
Lev N. Krasnoperov, Ph.D.

CIVIL ENGINEERING

Catarina Baptista Pereira
Dissertation:
Effect of Fluid Penetration on the Damage Processes and Micro-Seismicity Due to the Hydraulic Fracturing of Rocks
Advisor:
Jay N. Meegoda, Ph.D.

Jin Fan
Dissertation:
Multi-Physics Numerical Simulation of Corrosion and Service Life Evaluation of Novel Reinforced Concrete Systems
Advisors:
Matthew J. Bandelt, Ph.D.
Matthew P. Adams, Ph.D.

Mohab A. Hussein
Dissertation:
Modeling Uncertainties in the Resistance of Driven Files in Intermediate Geomaterials: Interpretable, Probabilistic, and Data-Driven Machine Learning Methods
Advisor:
Rayan H. Assaad, Ph.D.

* Jitendra Anil Kewalramani
Dissertation:
The Ultrasound Technology for Remediation of Per and Polyfluoroalkyl Substances in Environmental Media
Advisor:
Jay N. Meegoda, Ph.D.
John G. Lyssikatos
Dissertation:
Expert System for Risk Scoring and Mitigation of Lender-Financed Building Construction Projects
Advisor:
Fadi Karaa, Ph.D.

Seyed Masoud Shirkhorshidi
Dissertation:
Corrosion Performance and Durability of Advanced Reinforced Concrete Systems for Transportation Infrastructure
Advisors:
Matthew J. Bandelt, Ph.D.
Matthew P. Adams, Ph.D.

† Noah A. Thibodeaux
Dissertation:
Behavior of Novel Cementitious Composites for Use in Sustainable Construction and Rehabilitation
Advisor:
Matthew J. Bandelt, Ph.D.

COMPUTER ENGINEERING

† Haoyue Liu
Dissertation:
Analyzing Fluctuation of Topics and Public Sentiment Through Social Media Data
Advisor:
Mengchu Zhou, Ph.D.

† Fatemeh Mohammadi Shakiba
Dissertation:
Artificial Neural Networks and Their Applications to Intelligent Fault Diagnosis of Power Transmission Lines
Advisors:
Mengchu Zhou, Ph.D.
Seyyedmohsen Azizi, Ph.D.
* Yasser Abduallah
Dissertation: 
* Machine Learning-Based Data Analytics for Understanding Space Weather and Climate
Advisor: 
Jason T.L. Wang, Ph.D.

Niloofar Aghaieabiane
Dissertation: 
* Machine Learning and Network Embedding Methods for Gene Co-Expression Networks
Advisor: 
Ioannis Koutis, Ph.D.

* Firas Gerges
Dissertation: 
* Monitoring Climate Change with Machine Learning and Uncertainty Quantification
Advisors: 
Jason T.L. Wang, Ph.D. 
Michel C. Boufadel, Ph.D.

* Michael Lan
Dissertation: 
* Using Materialized Views for Answering Graph Pattern Queries
Advisor: 
Dimitrios Theodoratos, Ph.D.

Chih-yuan Li
Dissertation: 
* AI Approaches to Understand Human Deceptions, Perceptions, and Perspectives in Social Media
Advisors: 
James Geller, Ph.D. 
Soon Ae Chun, Ph.D.

† Yaju a n  Li
Dissertation: 
* Computation of Risk Measures in Finance and Parallel Real-Time Scheduling
Advisors: 
Jing Li, Ph.D. 
Marvin K. Nakayama, Ph.D.
Hessamaldin Mohammadi
Dissertation:
*Mapping Programs to Equations*
Advisor:
Ali Mili, Ph.D.

† Sangat Sanirbhai Vaidya
Dissertation:
*Towards Ensuring Integrity and Authenticity of Software Repositories*
Advisor:
Reza Curtmola, Ph.D.

‡ Cavidan Yakupoglu
Dissertation:
*Parameter Selection in Fully Homomorphic Encryption Schemes and FHE Applications*
Advisor:
Kurt Rohloff, Ph.D.

Mojtaba Zaheri
Dissertation:
*Towards Better Web Privacy: Cross-Site Leaks and Countermeasures*
Advisor:
Reza Curtmola, Ph.D.

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* Goc Pataloski
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Jayvik P. Patel
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Nirav Kamlesh Patel
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Purb Patel
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Johann Christoph Winter
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* Tyler Zamski
* Rui Zhang
* Judy Zuo

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Marco V. Angamarca
* Kadeem-Jamaal Bobcombe
Harliv Kaur
* Mehakpreet Kaur
Alexander Leva
Bryan Alonso Pinos
* Sriteja Sonikar
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  Edward Ordonez
* Carlos Javier Ortiz Escobar
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  Karan Parekh
  * Aahnik Y. Patel
  Barkha B. Patel
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  Dileesha Patel
  Disha Manoj Patel
  Karan S. Patel
  Karan Bipinchandra Patel
  Kartavya Patel
  * Krishna Patel
  * Kush Patel
  Mihir B. Patel
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* Miten Patel
  Mohit Henny Patel
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  * Anxhela Mehetetaj
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  † Brandon Lam
  Pavly Rizk

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  † Orville Orlando Dillon Jr.
  Advaita Naidu Kadiyala
  Siddarth S. Mally

  * Rudolph Paulin
  † Kerim Sever
  Charles W. Wicklund
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**HONORS DESIGNATION**

*Honors Scholars — graduates of the Albert Dorman Honors College*
GRADUATION WITH ACADEMIC HONORS

The following academic honors are based upon cumulative grade point averages achieved prior to the spring semester:

*summa cum laude* — with highest praise
grade point average 3.850 - 4.00

*magna cum laude* — with great praise
grade point average 3.650 - 3.849

*cum laude* — with praise
grade point average 3.400 - 3.649

---

**SUMMA CUM LAUDE**

Anthony Philip Abdelmessih
Lazar Agoev
Forrest Ahles
Jeeshan Ahmed
Apoorva Amudhan
Sraavya G. Anne
Michael Silva Antunes
Arun Aryal
Fiona N. Asham
Sarah Azize
Abdul Azizogli
Itay Bachar
Eunice Bae
Jinhyeok Bae
Sungjun Bae
Philip Baranowski
Desimir Berardo
Thomas A. Bermudez
Clayton Bernardi
Matthew E. Berrios
Simone H. Bishara
Ross Rene Bonifacio
Luc Christian Brancheau
Zhaoshu Cao
Giann Carlo Carrasco Perez
Nicholas Ryan Carrillo
Emily A. Carvalho
Chelsea Castillo
Elias Misael Castillo
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Hao Massimo Chen
Ananth Chenimineni
Andreea Ecaterina Chirica
Constance Chu
Rafael Ciprian Jr.
Tyler Frank Cironne
Josephine Coates
Rachel Coffey
Andre Colon
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Paolo Sebastian Elguera
Grandez
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Ashwin T. Kurian
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Ethan Alfred Lee
Seungkyu Lee
Alon Lerner
Sungyoon Lim
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Akhil Maheshwary
Marina Ashraf Makary
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Eric Malandino
Perla H. Malki
Steven John Marcucci
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Justin Pace
Varun R. Pai
Sai D. Pamula
Akaash Patel
Rajan M. Patel
Stuti M. Patel
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MAGNA CUM LAUDE

Monica Abdelmaseh
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Marian M. Andrawis
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Mina Amir Hanna
Soubia F. Hasan
Shaikh Amarul Hassan
Clayton James Heidt
Ellie Ilyyoung Hong
Yingyi Hsu
Erika Lynne Hurst
Dang Minh Huyhn
Annmary N. Ibrahim
Omar O. Ibrahim
Paul Ibrahim
Daniel M. Jahlonski
Abduljabbar Jag
Jincheol Jeong
Brett J. Johnson
Sneha Kafle
Osama Kalash
Rhea Kalyanpur
Elise Kastner
Megan J. Katapodis
Jeena Sonya Kataria
Gurleen Kaur
Harliv Kaur
Mehakpreet Kaur
Thomas John Kelly
Hayder Khan
Sumi Khanom
Jack Ryan Kildea
Gillian Kinnyu Kongnyuy
Haley Rae Kravitz
Patrick Krawczyk
Lap Le
Christopher Alan Lee
Donggeon Lee
Janine Lojko
Tyler Reed Lucas
Vivian Maher
Jaclyn Christina Maksimov
Mitchell Malakhov
Sakthivelan Manikathan
Caleb T. Mason
Ella R. McCormick
Roark A. McFadden
Joseph Patrick McIntyre
Kaitlyn H. McKenna
Jonathan Levi McNanna
Raquel Martine Mea
Sarah Jane Mee
Mirsad S. Mehaj
Anxhela Mehetaj
Mary P. Melik
Nicholas Merino
Mina Mikhail
Ryoji Roy Mizutani
Vishva Kishorkumar Modi
Kristen Mogerman
Ahmed Magdy Mohamed
Matthew E. Morena
Mark Amir Mosaad
Mamoon M. Mousa
Robert F. Murphy
Ronil K. Naik
Przemyslaw Narowski
Mitesh Narotam
David-Kerolos R. Nashed
Sofia Nasiek
Johanna Estefania Navas Ramos
Khoa Anh Nguyen
Ryan J. Nolan
Chukwudi Samuel Obi
Nicholas S. Oshel
Alexander Pais
Ricky S. Palaguachi
Proggya Paromita
Caroline Martha Pasek
Patricia A. Patalinjug
Dhruvi Minkeshkumar Patel
John A. Gonzalez
Doron Griffin-Tann
Jasson A. Guerrero
Julia-Marie Guinto
Paul Steve Gutierrez
Emma Nicole Hamza
Euphemia Hana
Rohan Harish
Ricardo Augusto Hidalgo Rojas
Cristina T. Hilario
Jordan Elizabeth Hungreder
Mina Ibrahim
Sho Ikeda
Juliana Impaglia
Akimori Christopher Ino
Justin Alexander Jaime
Jozef K. Janosko
Kirsten V. Javier
Dranreb R. Jimenez
Eric D. Johnson
Feby Jose
Jomin Joseph
Mohit Joshi
Smit A. Joshi
Ibrahim Ishmael Kamara
Beshoy Sobhy Kamel
William Christopher Kaminski
Archisha Kanchan
Kevin Katayama
William J. Kelly
Dohaa A. Khader
Abdullah N. Khan
Pramit A. Khatri
John E. Kinge
Nicole E. Kistner
Anish Kohli
Ercihan Korkmaz
Spencer R. Korman
Max Roald Kristiansen
William Bruce Kroeger Jr.
John Kulpanowski
Rajiv Kumar
Jason T. Kurzer
Yale Kwon
Bright B. Kyeremateng
Frank S. Laba
Andreh Adel Labib

Sheimaa Abada
Leen Abaza
Adam Abdalkarim
Mohamed A. Abdelrehem
Shanu Abrol
Jibran G. Abarulislam
Jose Manuel Adames Gomez
Nour Adris
Vineet Adusumilli
Hussain Ahmed
Aidar Aidossov
Joseph Michael Albanese
Sae F. Almeida
Situ A. Amarvi
Janae Danielle Anderson
Ricci D. Gicole Andrad
Stephany Maricela Aristizabal
Jenna L. Ariza
Nairi Arslan
Kwabena Owusu Asante
Ogedi F. Asimama-Duruaku
Ege Atay
Mina Attia
Elvis Baez
Mariem Mahmoud Bakeer
Ellis Andrew Ballard
Brian J. Balthazar
Kris Baran
Alexander Franklin Barney
Michael J. Barrios
Domenick Alfred Batty
Justin Christopher Bautista
Juan David Bejarano Gamez
Omar Waldemar Benavente Jr.
Dana May Berchak
Dorottya Berczy
Lucas Philip Blazej
Karolina Budkiewicz
Brian Bueno
Diego A. Cabrera
Jaylin Cabrera
Jason S. Cajamarca
Devin Christopher Callahan
Marshall Callison
Elian Marquez Calvo
Isaiah Lucas Calvo
Aaron-Justin Candelaria
Martin J. Carlos
Samuel T. Carlos
Nicholas L. Carrion
Matthew Armand Cassini
Marloie Gene Castaneda Sison
Joshua Cayetano
Lauren Elizabeth Chamberlain
Stephen Chan
Aditya Chandel
Hayk A. Chibukhchyan
Albert J. Choi
Christopher Nedialko
Christiansen
Dawid Chudzik
Vincent Matthew Cinardo
Marcia Clark
Sarah R. Collins
Isaiah L. Cruz
Sebastian Cruzado
Joseph Alexander Cudia
Jonathan F. Da Silva
Hadeel Darweesh
Trisha Daswani
Reyden C. Davies
Tiffany De La Cruz
Michael Joel De Leon
Miguel Angel Delgado
Robert Dell'Aquila
Thomas Robert Hunt Di Trapani
Robert D. Diasio
Justin A. Diaz
Justin Mario DiGiorgio
Liam Dishy
Luka Dragoljic
Kelly Marie Drust
Dario E. Duran
Amber R. Eiserle
Aymen Elassa
Corby W. Eldrenkamp
Nas Anass Ennasraoui
Carlos A. Espana
Daniel Espejo
Janice E. Espinoza-Rodriguez
James M. Fell
Frank C. Fenner
Jessica V. Fernandez
Michael E. Ferro
Christopher E. Flores
Maricris Flores
Meghan Elizabeth Flynn
Andrew Foye
Patrick Thomas Furrey
Stephen M. Fusco
Gianni Demetry Gabriel
Neel R. Gajera
Kenit Gandhi
Esteban Andres Garcia
Robert Godfrey Gauld
Zean L. Go
VETERANS WHO SERVED IN THE ARMED FORCES

Rakkim Abdul-Shakoor
Benjair Asmat
Willy Bido
Jaylin Cabrera
Fredy Cardona-Corino
Michael Carrillo
Michael Cordero
Kendle Dalrymple
Daniel Freeman
Patrick Furrey

Cameron Greer
Aaron Kellett
Charles Mainwaring
Emil Mojica
Jason Morlock
John Peoples
McGregor Sylvain
Jeancarlos Valerio Reyes

COMMISSIONS

UNITED STATES AIR FORCE RESERVE CANDIDATES FOR COMMISSION

Christian A. Gaba
Marko Hernandez
Joseph I. Rincon

Robert N. Tilli ’22
Kevin M. Watson
## AWARDS EARNED FOR ACHIEVEMENT IN THE YEAR OF GRADUATION

<table>
<thead>
<tr>
<th>Scholarship/Grant</th>
<th>Recipient(s)</th>
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</thead>
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<tr>
<td>Allentuch Scholarship</td>
<td>Sayuri Naito</td>
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<tr>
<td>American Society of Highway Engineers Scholarship</td>
<td>Nestor Garica</td>
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<tr>
<td>ASCE North Jersey Branch Scholarship Award</td>
<td>Heba Yousef</td>
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<tr>
<td>Association for Computing Machinery</td>
<td>Logan Emigdio Reyes</td>
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<tr>
<td>Avanade Inc. STEM Scholarship</td>
<td>Lizete Afonso</td>
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<tr>
<td>Frederick and Florence Bauder Scholarship</td>
<td>Andrew McBride</td>
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<tr>
<td>BGK Endowed Scholarship</td>
<td>Jason Ogbebor</td>
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<td>Diane and Joel Bloom Scholarship</td>
<td>Jennifer Cabral</td>
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<td>Chemical Engineering Department Annual Scholarship</td>
<td>Jason Ogbebor</td>
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<tr>
<td>Civil and Environmental Engineering Campaign Scholarship</td>
<td>David DaGraca</td>
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<td>Civil and Environmental Engineering Leadership Award</td>
<td>Nestor Garcia</td>
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<td>COAD Dean’s Endowed Scholarship</td>
<td>Constance Chu</td>
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<tr>
<td>COAD Freshman Highlander Achievement Scholarship</td>
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<tr>
<td>Cruz Family Endowed Scholarship</td>
<td>Situ Amarvi</td>
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<tr>
<td>CyberCorps Scholarship for Service</td>
<td>Logan Emigdio</td>
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<tr>
<td>Irene DeCaprio Memorial Scholarship</td>
<td>Samuel Itman</td>
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<tr>
<td>Anthony M. Dinallo Scholarship</td>
<td>Sayuri Naito</td>
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<tr>
<td>Exxon Mobil Honors College Scholarship</td>
<td>Situ Amarvi</td>
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<tr>
<td>Frederick Farley Memorial Honors Scholarship</td>
<td>Andrew McBride</td>
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<td>Matthew Cordes</td>
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<tr>
<td>Glass Scholarship</td>
<td>Andrew McBride</td>
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<tr>
<td>John C. Hartmann Endowed Scholarship</td>
<td>Sheimaa Abada</td>
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<td>John C. Hartmann Endowed Scholarship</td>
<td>Brandon Cannizzo</td>
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<td>David Kayal</td>
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<td>Highlander Scholarship</td>
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<td>Arun Aryal</td>
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<td>Highlander Persistence Scholarship</td>
<td>Joshua Lipko</td>
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<tr>
<td>Highlanders Persistence Scholarship</td>
<td>Jason Ogbebor</td>
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<td>James R. Hoffa Memorial Scholarship</td>
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<td>Jacqueline Kane Endowed Scholarship</td>
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<tr>
<td>Landsberger Foundation Annual Scholarship</td>
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<td>Maher Resident Scholarship</td>
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<td>Moles Scholarship</td>
<td>Janet Cabral</td>
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<tr>
<td>National Starch and Chemical Foundation Scholarship</td>
<td>Janet Cabral</td>
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<tr>
<td>Newark College of Engineering Board of Visitors Endowment Scholarship</td>
<td>Janet Cabral</td>
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<tr>
<td>Newark College of Engineering Outstanding Senior Award in the</td>
<td>Janet Cabral</td>
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<tr>
<td>Newark College of Engineering Outstanding Senior Award in Biomedical Engineering</td>
<td>Janet Cabral</td>
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<tr>
<td>Newark College of Engineering Outstanding Senior Award in Chemical and Materials Engineering Department</td>
<td>Janet Cabral</td>
</tr>
</tbody>
</table>
Newark College of Engineering Merit Scholarship  
Matthew Cordes
Newcombe Endowed Scholarship  
Heba Yousef
NJIT Academic Excellence Scholarship  
Jibran Abarulislam  
Forrest Ahles  
Janae Anderson  
Abdelmalek Benaissa  
Jennifer Cabral  
Constance Chu  
Matthew Cordes  
Patrick Czachor  
David DaGraca  
Marc Fayad  
James Fell  
Jeremiah Fernandez  
Meghan Flynn  
Nestor Garcia  
Harliv Kaur  
Joshua Kobuskie  
Joshua Lipko  
Mark Mosaad  
Sayuri Naito  
Mark Nashed  
Jason Ogbebor  
Samad Qadri  
Patrick Sansone  
Cyril Shenouda  
Sarabveer Singh  
Michael Tuma  
Bryan Velez
NJIT Academic Scholar Award  
Sraavya Anne  
Arun Aryan  
Hao Massimo Chen  
Hans Pocholo Hugo  
Zachary Lane  
Alan Nguyen
NJIT Academic and Student Service Award  
Nikole Martin
NJIT Honors Excellence Scholarship  
Jennifer Cabral
NJIT Honors Scholarship  
Forrest Ahles  
Jennifer Cabral  
Constance Chu  
Matthew Cordes  
Patrick Czachor  
Meghan Flynn  
Joshua Kobuskie  
Zachary Lane  
Mark Mosaad  
Alan Nguyen  
Patrick Sansone  
Michael Tuma
NJIT Honors Room Scholarship  
Forrest Ahles  
Sraavya Anne  
Matthew Cordes  
Patrick Czachor  
Meghan Flynn  
Zachary Lane  
Mark Mosaad  
Mark Nashed  
Patrick Sansone  
Michael Tuma
Orsted Opportunity Scholarship  
Jessica V. Fernandez
Michael J. Pappas Scholarship  
Hans Pocholo Hugo
Rick Pedersen ’81 Endowed Scholarship  
Forrest Ahles
Quasi Scholarship Foundation  
Brandon Cannizzo
Reif Family Endowed Scholarship  
Situ Amarvi  
Nestor Garica
Mullen Robert ’79, ’86 Family Scholarship  
Heba Yousef
Edward Sedimayer ’47 Scholarship  
Patrick Sansone
CD Shea Memorial Endowed Scholarship  
Hans Pocholo Hugo
Harold and Dorothy Snyder Scholarship  
Situ Amarvi
Society of American Military Engineers Scholarship  
George Mettry
Turner Construction Company/Construction Management Endowed Scholarship  
Heba Yousef
Wells Fargo Scholarship  
Meghan Flynn
Jim Wise Scholarship  
Patrick Sansone
Jim Wise Honors Scholarship  
Mark Nashed
Ronald A. Wiss Scholarship  
George Mettry
Curtiss Wright Centennial of Flight Scholarship  
Nicholas Carrillo
George J. Yohrling ’69 Endowed Scholarship  
David DaGraca
IN RECOGNITION OF THE CLASS OF 2023

Proud parents, family and friends have recognized the accomplishments of individual members of the Class of 2023. Gifts in their honor have been made to the university to provide support for future generations of graduates.

Congratulations to our daughter and sister
Soraya L. Abellard
We are so very proud and love you very much!
Mom, Dad and Ethan

Congratulations
Jibran G. Absarulisam
Run, Jibran, Run! Keep running, Pa! Don’t stop! Your relentless effort, hard work, strive, dedication have paid off. Your dream is our dream that has come true. You did it! Our heartfelt congratulations! We are so proud of you.
May Allah Bless all. Baba, Mama and Ate

Congratulations to our son and brother
Sergio A. Acevedo
We are so proud of you!
Love, Mom, Dad, Tati and Niky

Congratulations to our beloved son
Favour Adelufosi
on this great accomplishment. Words cannot explain the peace, comfort and hope you represent in our lives as your parents. You will continue to move from glory to higher glory in Jesus mighty name.
Pastors Samson and Kami Adelufosi

Congratulations to our beautiful, unique and hardworking daughter and sister
Maryam Abdelhalim
We are so proud of you! Go forth and make a difference in the world. We love you.
Mom, Dad and Yousef Abdelhalim

Congratulations to my son
Jose G. Alvarez
I’m so proud of you and how far you’ve come. I wish you nothing but the best for you and your future. Love, Mom

Congratulations to our son
Abhiroop Arun
We are so proud of you! Mom and Dad

Congratulations Ellis!
Ellis A. Ballard
We’re so proud of you.
Mom, Dad and Spencer

In honor of my son
Nathan N. Beauvais
I am so very proud! Booboo, you are the light of my life and looking forward to what the next chapter brings. You deserve only the best that life has to offer. Love always, Mom

Congratulations to our dear son
Omar W. Benavente, Jr.
The future is all yours now. Go for it!
May the Lord bless your steps and watch over you.
Mom, Dad and sister

Congratulations to our son
Cole James Bienert
Onward and upwards into a bright future!
Love, Mom, Dad and Chase

Congratulations and best of luck
Devin Bommarito
What the mind can conceive and believe – it can achieve! Mom, Eddie and Solia

Congratulations to our daughter
Courtney A. Branch
We are so proud of you!
Love always, Mom and Dad

Let’s Go #6
Liam P. Brown
Congratulations! Much success in your future.
Love, Mom, Dad, Danny and Erin

Congratulations to our son and brother
Thomas R Capalbo
Love, Mom, Dad, Jim and Melanie

Congratulations
Nora A. Chamesian
We are so proud of you! May your future be filled with happiness and success and may God bless you and guide you always.
Love Dad, Mom and Michael Chamesian

Congratulations to our dear son
on your graduation
Antonio Costa
May God’s blessings be upon you forever and ever.
With love, Mom, Dad and Diogo

In honor of
Reynaldo “RJ” Cobarrubias
Congratulations on this wonderful accomplishment! Love, Mom and Dad

Congratulations Jack Cudia
and to the class of 2023!
The world welcomes talent with open arms.
Time to be embraced! Great job on an amazing 4 years. Live your dream and be happy.
Love Mom and Dad

Congratulations to our daughter
Christina DeRosa
Love, Mom and Darrell

Congratulations to my granddaughter
Christina DeRosa
Love, Grandmom

Congratulations
Anthony J. DeTorfino
We are so proud of you!!
Love, Mom, Dad and Nicholas
In Honor of our daughter and sister
Julia Racquel Devino
Cento di questi giorni
Mom and Lissy
Dear Joe DeVito
Congratulations Joe, we know how hard you worked for this!
Love Mom, Dad, Chris and Bono
Casey T. Duran, wishing you all the best!
Congratulations! God Bless You Always.
Love, Mom, Dad, Carla and your Philippines family – Madelein, Jeff and Carla Duran
Congrats Carlos Espana!
Your family is happy to be part of this achievement!
In honor of
Da’mir D. Faison
Da’mir, the plan you endured physically prepared you to stay strong mentally.
We are proud of you and know this is the beginning of your many accomplishments.
Congratulations! Love you, Mom and Dad
Felicitades nuestro hijo!
Christian Gaba
Mom, Dad, Grandma and Siblings
Vivian and Harrison Eghan
Congratulations to our son
Hunter Grimm
We are very proud of you.
Love, Mom, Dad and Annaleise
Congratulations to our son and brother
Nicholas Grippaldi
Mom, Dad and Marissa
Congratulations kiddo – you did it!
Manny Grova III
Love, Mom, Dad, Angelica and Adam
Congratulations
Peter Habib
We are so proud of you and all your accomplishments.
Love you always, Mom and Dad
Congratulations to our dearest
Menaal Haque
Sending you prayers and blessings for your graduation and for your future. May God grant you success and all that is good for you. We love you today and are proud of you.
Love, Baba, Mama, Nunoo, Palo and Krusty
In honor of our son
Bruno Hinostroza
We thank God for your graduation.
The fruit of your efforts and dedication continue to grow! Proudly, your parents - Graciela and Alfredo
Congratulations and well-earned
Andrew “Al” Jones
We are so very proud of the incredible son you have always been and the accomplished man you are. We love you very much and look forward to seeing what you do next in life.
Love Mom, Dad and Hailey xxoo
Congratulations
Jacob Jones
We are so very proud of you!
Mom, Dad, Marcus and Bailey
Congratulations!
David M. Kayal
Be proud of your accomplishments, success will follow. Best of everything. Love, Mom
Congratulations to our son and brother
Jack R. Kidea
Love, Mom, Dad, Maggie and Janie
In honor of
Nakul Kochar
We’re so proud of you and honored to celebrate graduation day with you!
Congratulations graduate!
Love you, Mom, Dad and your sister
Congratulations
Elizabeth M. Kowalchuk
We are so proud of you!
Love Mom and Dad Kowalchuk
We are so proud of you!
Joseph Dante Landi
Looking forward to what awaits you in the next chapter! Love, Mom, Dad, Marie, Michelle, Theresa and Dante
Congratulations to our son and brother
James W. Lavender
Dad, Mom, Leah, Martina, Ray and Cat
In honor of our son
Addison James Lifrak
We are so proud of the man you have become.
Love, Mom and Dad
Congratulations on your graduation
Jason L. Louison
The sky is the limit! Fly High!
Love, Jacqui and Fran and Jonathan Louison
Congratulations
Kurtis J. Martin
We are so proud of you!
Dad and Erik
Congratulations!!!!
Carlos Martinez
We are proud of you and wish you the best.
Dad, Mom, your sisters wish you the best in all your future endeavors and remember the sky is the limit and enjoy every moment of this new chapter of your life.
Congratulations Class of 2023!
Congratulations to
Nicolas R. Martinez
Fortune favors the bold!
Love the Martinez Family

Congratulations to
Roark McFadden
May the road rise to meet you.
Proud ever! Parent and Grandparents

In honor of our son and brother
Derek A. Mejia
You did it! Congratulations on this outstanding
accomplishment. Love, Mom, Dad and Katrina

Congratulations and Happy Graduation day!
Engelo P. Merado
We are so proud of you!
Dad, Mom and Jelly

Congratulations!
Haylee Merola
Do great things in life!
We love you and we are so proud of you!
Love, Mom, Dad, JD and Amma

Congratulations on your success.
Sakar G. Michel
All the best. With love, Mom, Dad, and Jude

Congratulations
Nicholas Millar-Falzo
Love you, Moms and Erin

Congratulations!
Kristen Mogerman
Wishing you all the success, happiness, and
opportunities the world has to offer. We love
you and could not be more proud!
Mom, Dad and Nicole Mogerman

Congratulations to our
Gabriel Moyet
We are so proud of you! Love, Mom, Dave,
Tia Vero, Barb, Angel and Kristina

Congratulations
Dominic Mozeika
Your Family is so proud of you!

Congratulations to my son
Hector L. Muniz
Today is a new beginning. Just dream,
believe and keep smiling. Love, Mom

In honor of our daughter
Sofia Nasiek
Congratulations and we are so proud!
Mom, Dad, Julia and Luisa

Congratulations to our son
Howell-John Nunez
We are so very proud of you!
Love, Mami and Papi

Congratulations to our son
Ethan T. O’Malley
We are so proud of you!
Mom, Dad, Meghan and Owen

Congratulations to our son
Andres E. Orbe
Love you always,
Mom, Dad and Gabriel

Congratulations to our son
Edward Ordonez
Love, Mom, Dad, Abuelo and Angie

Congratulations to our darling
Eniola T. Oriyomi
May lines continue to fall in pleasant places for
you. With love from Mom, Dad, Yemi and Jimi

Congratulations to our son
Nicholas S. Oshel
We are very proud of you!
Love Mom and Dad

Congratulations to our son and brother
Alexander Pais
We are very proud of you. We love you!
Mom, Dad and Michael

In honor of our son
Shahil B. Patel
We are so very proud of you!
Bhavesh and Nimisha Patel

Congratulations to our son
Christopher Pierro
We are so proud of you!
Love, Mom and Dad

Congratulations to our son and brother
Andrew J. Prescott
We love you and are so proud of you!
Dad, Mom and Alexander

Congratulations to our son and brother
Adam M. Primost
We are so proud of you!
Love, Mom, Dad and Alex

Kumayl Qureshi, you did it!
Congratulations and Mazel Tov!
We love you!!! Congrats to the entire class of 2023!
Terry, Jacob, Michelle and Schroeder

Congratulations
Kailin R. Rock
You reached your goal and your loving family
is ELATED!

Congratulations
Jose Andres Rodriguez
We are very proud of you!
Diana and Andrea

Congratulations to our son and brother
Robert A. Sawh
With love Mom, Dad,
and your brothers – Anthony and Richard
Congratulations!
David-Daniel Schiettino
We are so proud of you. Love, Mom, Dad, Vanessa, Jay, Brittany, Jaiden and Leo

In honor of
Natasha Seetharaman
So proud of you Tach! Amma, Anna, Nik, Grace, Mom, Dad, Joy, Tris, Hem, Venkat, Rak, Indra, Suresh, Anu, Manan, Jiya, Riyann, Cindy, Devon and Beck

Congratulations
Gavin Strand
We love you! Mom

Congratulations to our daughter
Gianna M. Tautonico
We are so proud of you. Keep following your dreams! Love, Mom and Dad

Congratulations to our daughter and mother
Kathy Thompson
With love, Dottie Wright and Tashon Thompson

In honor of
Zach Tinawi
We couldn't be more proud of your dedication, hard work, and persistence. Love, Mom, Dad, Tamara, Ron and Family

Congratulations!
Christopher A. Treadwell
Love, Mom, Lauren, Samantha, Grandma, Grandpa and Uncle Joe

Congratulations
Michelle Vanadia
We are so proud of you and your accomplishments! Love Mom, Dad and Gabrielle

In honor of our daughter and sister
Lillian A. Williams
So proud of you! Love, Mom, Dad and your brothers – Jhamali and Dylan Williams

Congratulations!
Natalie Wilson
We are so very proud of you and love you very much. All your hard work has paid off! Mom, Pops, Grace and Olivia

Congratulations to our son
Zachary Zakolski
We are proud of you!
Mark and Lisa Zakolski

Congratulations to our amazing daughter and sister
Ariana Eva Caminos
Love, Dad, Mom, Jude, Cristian and your Cuban/Argentinean family

In honor of
Nicholas R. Carrillo
We are so very proud of you! Love, Mom, Dad and Ellie An

Congratulations
Grimm Cato
To our graduate who has worked so hard. Sending you our heartfelt wishes with the hope for you to set your goals high and not stop until you achieve your goals. Noel Latoza and Luisa Valena

Congratulations to our daughter
Sophia D’Anna
May all your dreams come true! Love, Mom, Dad and Blaise

Congratulations
Kyle Mileski
To the Class of 2023 and Sigma Pi. We love you and are very proud of you! Love, Mom, Dad and Natalie

Congratulations to our son
Daniel P. Rajaram
Mom, Dad, Ryan, Lanessa, Mason, Myles and Melia

Congratulations
Karly Savinon
You did this! Love, Mom and Gabby

Congratulations
Andrew Skorupski
You did it! May all your dreams come true. Love, Mommy and Daddy

In honor of our grandson
Andrew Skorupski
We are so proud of you! We love you, Nana and Poppy

Congratulations
Jonáthan Valerio
Your whole family is so proud of you! We love you so much! Mom, Dad, Sister, Jacob and Rob

The congratulatory messages below were received after the deadline for submissions and could not be included in the printed Commencement Program. To communicate these heartfelt messages, we have included these additional messages that acknowledge the accomplishments and good wishes for the Class of 2023 in the digital and online versions of the program.
BOARD OF TRUSTEES

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Hon. Ras J. Baraka ’18 HON (Ex-Officio)  Mayor of the City of Newark

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### UNIVERSITY OFFICERS

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<thead>
<tr>
<th>Position</th>
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<tr>
<td>President</td>
<td>Teik C. Lim, Ph.D.</td>
</tr>
<tr>
<td>Vice President for Development &amp; Alumni Relations</td>
<td>Kenneth Alexo, Jr., Ph.D.</td>
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<tr>
<td>President of the Foundation</td>
<td>Marybeth Boger, Ph.D.</td>
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<td>Vice President for Student Affairs and Dean of Students</td>
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<td>Senior Vice President for Finance and Chief Financial Officer</td>
<td>Andrew P. Christ, PE</td>
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<tr>
<td>Senior Vice President for Real Estate Development and Capital Operations</td>
<td>Atam P. Dhawan, Ph.D.</td>
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<td>Interim Provost and Senior Executive Vice President</td>
<td>Angela Garretson, Ph.D.</td>
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<td>Chief Communications and Marketing Officer</td>
<td>Matthew Golden, Ed.D.</td>
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<td>Chief of Staff</td>
<td>Katie Hageman</td>
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<td>Chief Diversity Officer</td>
<td>David E. Jones, Ed.D.</td>
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<tr>
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<td>General Counsel and Vice President, Legal Affairs</td>
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<td>Interim Vice President for Human Resources</td>
<td>Joseph Wilson</td>
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<tr>
<td>Vice President for Digital Strategy and Chief Information Officer</td>
<td>Ed Wozencroft</td>
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### ACADEMIC DEANS

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<tr>
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<tbody>
<tr>
<td>Dean of Newark College of Engineering</td>
<td>Moshe Kam, Ph.D., PE</td>
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<tr>
<td>Dean of College of Science and Liberal Arts</td>
<td>Kevin Belfield, Ph.D.</td>
</tr>
<tr>
<td>Interim Dean of J. Robert and Barbara A. Hillier College of Architecture and Design</td>
<td>Gabrielle Esperdy, Ph.D.</td>
</tr>
<tr>
<td>Dean of Martin Tuchman School of Management</td>
<td>Oya Tukel, Ph.D.</td>
</tr>
<tr>
<td>Dean of Ying Wu College of Computing</td>
<td>Craig Gotsman, Ph.D.</td>
</tr>
<tr>
<td>Dean of Albert Dorman Honors College</td>
<td>Louis Hamilton, Ph.D.</td>
</tr>
<tr>
<td>Interim Provost and Senior Executive Vice President</td>
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The pageantry and tradition of college and university commencement ceremonies originated more than 800 years ago in medieval universities of Europe.

These early universities were bodies or guilds of students who took their name from the Latin word universitas, meaning a number of persons associated into one guild or community. These guilds were dedicated to the mastery of the arts and sciences. The master's or doctoral degree denoted full membership in the guild and admitted the recipient to the practice of teaching. The bachelor's degree, on the other hand, originally indicated only that the recipient had entered a course of study leading to the doctorate or master's. Later, the baccalaureate came to signify the completion of one level of study preparatory to higher degrees.

The term "commencement," which means beginning, originally referred to the occasion on which the student received the master's degree and "commenced" his career. Today, however, all levels of degrees are conferred at commencement.

Academic caps, gowns and hoods developed gradually from the long flowing robes that the teachers wore to protect themselves from the cold of the medieval buildings. As the scholars of the time were usually clerics, their robes differed little from those used by the church orders. Slowly, certain styles were designated for the universities, and these, with minor modifications, are the costumes worn today. Hoods were originally fashioned after the monk's cowl. The cap, with its tassels, evolved from the skull caps of the scholar-monks. In France, where the degree system probably began, wearing the cap and gown marked the formal admission of the student to the body of masters.

Today, academic regalia is standardized by the American Intercollegiate Code.

In the United States, it is traditional for academicians to wear the gown and hood of the university where they received their highest degree.

The gowns of bachelor's and master's degree candidates are usually without trimmings, whereas those for the doctoral degree are faced down the front with velvet and adorned with three velvet bars on the sleeves. The hood, a triangular fold of cloth worn over the back of the gown, is faced with colors which signify the field of study in which the degree is earned. The colors of the lining are those of the college or university which granted the degrees. The length of the hood increases with each higher degree.

The cap may be the stiff-crown style (mortarboard), or the soft tam. The tassel for bachelor's and master's is black or color appropriate to the major; those of doctor's are black or golden. The tassel is worn on the left side by those who have received a degree.

These colorful traditions culminate today in the academic procession and the commencement ceremony itself. They carry with them the splendor and majesty that is properly associated with such a happy and important occasion and help remind us of the long tradition of higher education.

**THE MACE**

The mace, used today as a symbol of authority invested in the president by the Board of Trustees, is the institution's most sacred symbol of office. Dating back to medieval times, it was used by civil officers and bodyguards. Originating from fasces used during the Roman Empire to restore order and implement court-ordered punishment, fasces were carried in processions adorned with laurel on festive occasions and draped in cloth for mourning. Maces were also used in consecration ceremonies and to protect the pope, cardinals and bishops. In time, it became a staff borne by, carried before or placed near a magistrate or other dignitary as an ensign of his royal authority.

Presented as a class gift in the early 1950s, the mace is 30 inches in length, made of wood and metal struck in silver and cast in bronze. Its head is marked by the seal of the university at the time of its presentation. The mace is adorned with tassels representing the colleges and degrees awarded by the university.
THE PRESIDENTIAL MEDALLION
The use of medallions or large medals, as symbols of office and authority, is also a tradition stemming from medieval times. The presidential medallion of the university is struck in silver and cast in bronze. It is worn about the neck by the president of the university on ceremonial occasions.

The Presidential Medallion used today consists of two plates. The first plate is a replica of the medallion presented to the university in 1968 by the Alumni Association bearing the university seal at the time. The second plate bears the official university seal today.

THE GONFALONS
Gonfalons, the insignia or symbols first used by princes or states in medieval Italy, have in recent times become widely used by colleges of major universities. The 1987 commencement ceremony marked their first processional use by New Jersey Institute of Technology. Each of the NJIT colleges is identified by its own symbol and by the year of its establishment.

Newark College of Engineering has as its ensign a chess rook, an ancient symbol associated with engineering and problem-solving as well as an early device in heraldry. It is shown on a field of academic orange with the year 1919, as the date when degrees were first authorized for the college.

J. Robert and Barbara A. Hillier College of Architecture and Design carries as its symbol a representational column head, the classic denotation of the discipline which is used throughout the college. It is shown on a field of blue violet, the academic color, and bears the year designation of 1973.

College of Science and Liberal Arts is identified by a lamp, another medieval symbol, commonly seen as a source of intellectual, moral and spiritual illumination. The white and gold of the banner encompasses both arts and letters and theoretic and applied aspects of science. The college was organized as a degree-granting entity in 1982.

The American eagle in flight is the pictorial representation of Martin Tuchman School of Management, symbolizing vision, control and integrity. Often depicted on coinage and currency, the eagle enjoys a historical tie to business and management and is shown against light brown, the academic color of its discipline.

Albert Dorman Honors College, represented by a scroll, was established in 1993. The college aims to inspire and prepare NJIT Honors Scholars to succeed through the highest standards of personal and academic achievement.

Ying Wu College of Computing is represented as a circle of five segments symbolizing computing as an academic discipline that connects and enriches all disciplines. The light blue background signifies computing as a distinct discipline in its own right, while the colors in the circle represent the other academic disciplines.
To Alma Mater fair and great,
our voices now we raise.

Our gratitude we demonstrate,
your steady voice we praise.

Your challenge on us never fails,
a world of knowledge calls.

In heart and mind,
our trust we'll bind
to our NJIT.

We'll hold your memory ever dear,
your spirit we'll revere.

To you we'll promise loyalty,
our own NJIT.
As New Jersey's public polytechnic university, New Jersey Institute of Technology (NJIT) has earned a reputation as one of the nation's pre-eminent STEM-focused educational and research institutions. The university consistently is ranked among the highest in the United States for return on investment (ROI) for its graduates. NJIT's economic impact on the State of New Jersey exceeds $2.8 billion each year, supporting more than 17,370 jobs and generating employment income of $956 million.

In 2022, NJIT was named a Top 100 National University by U.S. News & World Report, while Forbes ranked the school the #1 Public University in New Jersey. In its annual ranking, U.S. News & World Report also placed NJIT #8 in the nation for ethnic diversity among public universities. In 2022, Money ranked NJIT #14 in its list of Best Colleges.

Additionally, U.S. News & World Report ranked NJIT among the best in the nation for graduate degree programs in engineering, with the 2022 rankings marking the sixth consecutive year NJIT has appeared in the top 100.

NJIT also has earned the distinction of being designated an "R1" Research University by the Carnegie Classification*, the highest research rating. NJIT is one of only 146 universities nationally and just three in New Jersey to achieve this recognition.

With six colleges, 52 undergraduate degree programs, 68 graduate degree programs (including 20 programs leading to a Ph.D. degree in a professional discipline), and more than 150 specialized laboratories and research centers, NJIT is home to nearly 11,500 students and more than 480 full-time faculty and 372 adjunct faculty members. The university maintains a student-to-faculty ratio
of 15 to 1. Almost all of NJIT’s faculty hold the highest degree in their respective fields.

NJIT is a driving force behind a large number of technology- and innovation-based enterprises, as well as a wide range of business and industry public-private partnerships that have a significant impact on the economies of the state and the region. NJIT’s New Jersey Innovation Institute (NJII) was established in 2014 to work directly with business, industry and government for economic development.

Now in its ninth year of operation, NJII conducts more than $80 million in economic development activities annually. NJIT also is home to VentureLink, a business incubator and accelerator. NJIT currently has 159 unexpired U.S. patents, 40 pending U.S. non-provisional applications, one international (PCT) application and 27 provisional applications.

NJIT also makes significant contributions to the community through initiatives such as its $1 billion Campus Gateway neighborhood redevelopment plan. Phase 1 was launched on April 25, 2018, which is helping to revitalize a 22-acre area adjacent to the university’s campus. NJIT also supports the community through its annual Day of Service, Alternative Spring Break and numerous other community engagement service offerings that benefit the City of Newark and the State of New Jersey. In 2022, 1,214 students contributed 36,916 hours at 186 non-profit agencies, communities and schools.