COMMENCEMENT CEREMONY 2011

May Sixteenth
Two Thousand and Eleven
Prudential Center
Newark, New Jersey
Welcome to the 2011 commencement ceremony of New Jersey Institute of Technology. The university extends heartfelt congratulations to its graduates on their accomplishment and commends the families and friends who have helped them reach this milestone of academic achievement.

By definition, commencement means "to begin to be." As the members of the Class of 2011 begin to be, we wish them every success, confident that they have been well prepared for a life of contribution in the 21st century, to meet its challenges and embrace its myriad opportunities.

Well done!

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.
Commencement, an age-old tradition, is a joyous yet solemn event signifying years of study and sacrifice.

To preserve the appropriateness of this august occasion —

The audience should remain seated throughout the ceremony and until the recessional is completed.

There will be no standing in the aisles at any time during the ceremony.

Guests are not permitted on the arena floor.

Any attendee requiring assistance should contact uniformed Prudential Center personnel.

Members of the audience are asked to turn off cell phones and other electronic devices.

The university will be recording the day’s events. To view photos online, visit http://www.commence.njit.edu.

Your cooperation is greatly appreciated.
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Presentation of Honorary Degrees

Kathleen Wielkopolski, Chair
Board of Trustees

Daniel A. Henderson
Chief Executive Officer
Intellect Wireless

Joseph M. Taylor
Chairman and Chief Executive Officer
Panasonic Corporation of North America

Commencement Address

Joseph M. Taylor
Chairman and Chief Executive Officer
Panasonic Corporation of North America

Interlude

Newark Boys Chorus

Presiding

Ian Gatley
Provost and Senior Vice President
for Academic Affairs

Presentation of Candidates for Doctoral Degrees

Ian Gatley
Provost and Senior Vice President for Academic Affairs

Marino Xanthos
Associate Provost for Graduate Studies

Presentation of the Hashimoto Prize

Daniel A. Henderson
Chief Executive Officer
Intellect Wireless

High GPA Award Presentation

Ian Gatley
Provost and Senior Vice President
for Academic Affairs

Listing of the Candidates for Doctoral Degrees begins on page 10.
Listing of the Candidates for Master’s Degrees begins on page 26.
Listing of the Candidates for Baccalaureate Degrees begins on page 36.
Presentation of Candidates for Baccalaureate and Master’s Degrees

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<td>College of Architecture and Design</td>
<td>Urs P. Gauchat, Dean College of Architecture and Design</td>
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<td>College of Science and Liberal Arts</td>
<td>Fadi P. Deek, Dean College of Science and Liberal Arts</td>
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<td>School of Management</td>
<td>Robert English, Interim Dean School of Management</td>
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<td>College of Computing Sciences</td>
<td>Narain Gehani, Dean College of Computing Sciences</td>
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Conferring of Degrees

Kathleen Wielkopolski, Chair Board of Trustees

Alma Mater

Recessional

Listing of the Albert Dorman Honors College Scholars appears on page 56.
Listing of Candidates graduating with Honors Designations appears on page 57.
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.
Joseph M. Taylor was named chairman and chief executive officer of Panasonic Corporation of North America on February 22, 2010. He is a 28-year Panasonic veteran who has served as Panasonic Corporation of North America’s chief operating officer since 2007.

Taylor has led many of the company’s strategic business efforts, including creating a B2B enterprise solutions group and launching and coordinating companywide Full HD 3D TV product and promotion initiatives. Prior to becoming chief operating officer, Taylor was president of Panasonic Industrial Company, a division that supplies industrial components and electronic devices to the nation’s largest manufacturers and assemblers.

In addition to his role in Panasonic’s U.S. operations, Taylor also serves as an executive officer of parent company Panasonic Corporation. Through this position, he is involved in formulating and executing Panasonic’s global business strategy.

Taylor has served on numerous boards and technical education initiatives including programs with New Jersey Institute of Technology, the Liberty Science Center, and Rutgers University. He has been a member of the Board of the National Association of Manufacturers, chairman of the Board for the Electronic Manufacturers Recycling Company, and serves on the boards of several Panasonic companies.

In recognition of his outstanding career as chairman and chief executive officer of Panasonic Corporation of North America, thus providing NJIT graduates with an excellent example of what determination and talent can achieve, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Science, *honoris causa*, upon Joseph M. Taylor.
THE DEGREE OF DOCTOR OF SCIENCE, HONORIS CAUSA
Presented to

DANIEL A. HENDERSON
CHIEF EXECUTIVE OFFICER
INTELLECT WIRELESS

An entrepreneur, inventor, and sculptor, Daniel A. Henderson has been granted 26 U.S. patents covering telecommunication systems and devices. He has vast experience in the overseas manufacturing of his own products and has successfully founded and managed several technology companies; his patents, products and multiple companies have generated in excess of 150 million dollars. His prototype wireless picturephone was received by the National Museum of American History at the Smithsonian Institution in October 2007, and he has been recognized in Bloomberg Business Week and the Wall Street Journal.

Henderson began his career with IBM and was invited to work with Kazuo Hashimoto, known as the inventor of Caller ID and the modern answering machine. NJIT has been privileged to have Henderson present the Hashimoto Prize to outstanding doctoral graduates at the commencement ceremony. After the United States Marine Corps, Henderson earned two degrees from Southern Oregon University, where he also received the 1999 Distinguished Alumni award.

Henderson serves on the Board of Visitors of the Albert Dorman Honors College and frequently participates in colloquia for Honors College students. In 2008, The Albert Dorman Honors College Computer Lab was dedicated to Henderson, and he created the NJIT-ECE Phonetel Scholarship.

He is also involved in other philanthropic efforts including the Tech Museum of Innovation in San Jose, California, the Cliburn Foundation in Fort Worth, Texas, and the digital Stone Project in Hamilton, New Jersey. Since 2007, he has been engaged in the ambitious pursuit of outsized public sculpture. His first solo museum exhibition is currently on display at the Grounds for Sculpture in Mercerville, New Jersey. In 2009, Henderson donated his sculpture entitled “The Brick” to NJIT, where it is permanently installed in the main entry of Fenster Hall.

In recognition of his exceptional achievements as an entrepreneur, inventor, and sculptor, and as an esteemed friend of the university, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Science, honoris causa, upon Daniel A. Henderson.
THE HASHIMOTO PRIZE
Presented to
NILUFA RAHIM ‘04, ’11 and JINGJING ZHANG ’11

Over a distinguished lifetime, Kazuo Hashimoto garnered more than 1000 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 co-recipients of the Hashimoto Prize are Nilufa Rahim and Jingjing Zhang, outstanding scholars who have earned the degree of Doctor of Philosophy through distinguished scholarship and research in electrical and computer engineering.
APPLIED PHYSICS
(Degree conferred jointly by NJIT and Rutgers-Newark, New Jersey)

* Samuel D. T. Beltran  
  BS Physics with Astrophysics Option, New Mexico Institute of Mining and Technology, Socorro, New Mexico  
  Dissertation:  
  Radio-Derived Three-Dimensional Structure of a Solar Active Region  
  Advisor:  
  Dale E. Gary, PhD

† Corina T. Bot  
  BS Medical Physics, Babes-Bolyai University, Cluj-Napoca, Romania  
  MS Atomic and Nuclear Methods in Environmental Studies, Babes-Bolyai University, Cluj-Napoca, Romania  
  Dissertation:  
  Dielectric Spectroscopy: A Noninvasive and Fast Method for Measuring Changes in the Membrane Potential  
  Advisor:  
  Camelia Prodan, PhD

† Sung-Hong Park  
  BS Physics, Chungnam National University, Daejeon, South Korea  
  BS Astronomy, Chungnam National University, Daejeon, South Korea  
  Dissertation:  
  Study of Magnetic Helicity in Solar Active Regions and Its Relationship with Solar Eruptions  
  Advisors:  
  Wenda Cao, PhD  
  Haimin Wang, PhD

† — August 2010 graduates  
* — January 2011 graduates
* Rene D. Rivero  
BS Applied Physics, New Jersey Institute of Technology, Newark, New Jersey  
MS Applied Physics, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Modeling of Magnetic Field Driven Simultaneous Assembly*  
Advisor:  
Nuggehalli M. Ravindra, PhD

Paul D. Rogers  
BS Mathematics and Physics, Royal Military College of Canada, Kingston, Ontario  
MS Business Administration, Harvard Graduate School of Business Administration, Cambridge, Massachusetts  
MS Applied Physics, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Analysis of Mueller Matrices of Metamaterials and Multiferroics*  
Advisors:  
Michael Kotelianskii, PhD  
Andrei A. Sirenko, PhD

**BIOMEDICAL ENGINEERING**  
(Degree conferred jointly by NJIT and UMDNJ, Newark, New Jersey)

Tamunotonye Briggs  
BS Biomedical Engineering, Case Western Reserve University, Cleveland, Ohio  
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*The Development of PDGF-BB Incorporated Polymer/Ceramic Electrospun Scaffolds for the Osteogenic Differentiation of Human Mesenchymal Stem Cells*  
Advisors:  
Treena L. Arinzeh, PhD  
George Collins, PhD

* Kai Chen  
BS Mechanical Engineering, Huazhong University of Science and Technology, Wuhan, Hubei, People's Republic of China  
MS Biomechanics and Movement Science, Wuhan Institute of Physical Education, Wuhan, Hubei, People's Republic of China  
MS Mechanical Engineering, Shanghai Jiao Tong University, Shanghai, People's Republic of China  
Dissertation:  
*Modeling of Equilibrium Point Trajectory Control in Human Arm Movements*  
Advisor:  
Richard A. Foulds, PhD
Ali Hussain  
BS Biology, University of Toledo, Toledo, Ohio  
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
A 3-Dimensional Vascularized Cardiac Tri-Culture Model Using Chitosan Nanofiber Scaffolds  
Advisor:  
Cheul Cho, PhD

† Yee-Shuan Lee  
BS Biomedical Engineering, University of Southern California, Los Angeles, California  
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
A Novel, Piezoelectric Scaffold for Neural Tissue Engineering Applications  
Advisor:  
Treena L. Arinzeh, PhD

* Abhishek Prasad  
BE Electronics and Communication Engineering, Dayananda Sagar College of Engineering, Bangalore, India  
MS Biomedical Engineering, Louisiana Tech University, Ruston, Louisiana  
Dissertation:  
Chronic Recordings from the Rat Spinal Cord for Command Signal Generation  
Advisor:  
Mesut Sahin, PhD

CHEMICAL ENGINEERING

Lauren Beach  
BE Chemical Engineering, Cooper Union for the Advancement of Science and Art, New York, New York  
Dissertation:  
Effect of Dry Particle Coating on the Properties of Cohesive Pharmaceutical Powders  
Advisor:  
Rajesh N. Dave, PhD

Ervin Beloni  
BS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Study of the Healing and Ignition of Metal Powder by Electrostatic Discharge  
Advisor:  
Edward L. Dretzin, PhD
Ezinwa O. Elele  
BE Mechanical Engineering, University of Nigeria, Nsukka, Nigeria  
MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Electrodeless Electro Hydrodynamic Printing of Personalized Drug Dosages  
Advisor:  
Boris Khusid, PhD  

* Jin Uk Ha  
BS Chemical Engineering, Inha University, Incheon, South Korea  
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Study of Controlled Release of Active Pharmaceutical Ingredients from Functionalized Nanoclays and Polymer Matrices  
Advisor:  
Marino Xanthos, PhD  

† Kwang Seok Kim  
BS Chemical Engineering, University of Seoul, Seoul, South Korea  
MS Chemical Engineering, University of Seoul, Seoul, South Korea  
Dissertation:  
Design of Novel Drug Delivery System and Optimal Dosage Regimens  
Advisor:  
Laurent Simon, PhD  

Daniel To  
BE Chemical Engineering, Cooper Union for Advancement of Science and Art, New York, New York  
MS Chemical Engineering, Cooper Union for Advancement of Science and Art, New York, New York  
Dissertation:  
Deagglomeration and Mixing Via the Rapid Expansion of High Pressure and Supercritical Suspensions  
Advisor:  
Rajesh N. Dave, PhD
CHEMISTRY

Xiangxin Meng
BS Chemistry, Northwest University, Xi’an, Shaanxi, People’s Republic of China
Dissertation:
Anti-solvent Precipitation and Subsequent Film Formation of Hydrophobic Drugs for Drug Delivery
Advisor:
Somenath Mitra, PhD

Anna Zarow
BS Chemistry, Kean University, Union, New Jersey
Dissertation:
Applications of Raman Spectroscopy in Pharmaceuticals
Advisors:
Tamara Gund, PhD
Zafar Iqbal, PhD

CIVIL ENGINEERING

* Kingsley O. Achebe
National Diploma in Civil Engineering, Federal Polytechnic, Bauchi, Nigeria
BS Building, University of Jos, Jos, Nigeria
MS Civil Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Risk Based Models for the Optimization of Oil and Gas Supply Chain Critical Infrastructure
Advisor:
Fadi Karaa, PhD

* Bakhtiar Feizi
BS Civil Engineering, Iran University of Science and Technology, Tehran, Iran
MS Structural Engineering, Tarbiat Modares University, Tehran, Iran
Dissertation:
Application of Mass/Stiffness Eccentricity to Control Response of Structures Subjected to Earthquake Ground Motion
Advisor:
Mohamad A. Saadeghvaziri, PhD
* Amin Jamali  
BS Civil Engineering, Razi University, Kermanshah, Iran  
MS Civil Engineering, K.N. Toosi University of Technology, Tehran, Iran  
Dissertation:  
Seismic Characterization of Recycled Aggregate Concrete  
Advisors:  
Mohamad Mahgoub, PhD  
Mohamad A. Saadeghvaziri, PhD

* Siri Konje L. Nukenine  
BS Mathematics, Ahmadu Bello University, Zaria, Nigeria  
MS Mathematics, University of Ibadan, Ibadan, Nigeria  
Dissertation:  
Factors That Impact Seat Belt Usage and Injury Severity of Belted Front Seat Occupants  
Advisor:  
Janice R. Daniel, PhD

COMPUTER ENGINEERING

* Jing Shi  
BE Communication Engineering, Huazhong University of Science and Technology, Wuhan, People's Republic of China  
MS Communications and Information System, Huazhong University of Science and Technology, Wuhan, People’s Republic of China  
Dissertation:  
Secure Data Access in Heterogeneous Wireless Sensing Systems  
Advisor:  
Yanchao Zhang, PhD

* Liyu Xu  
BS Electrical Engineering, East China Normal University, Shanghai, People's Republic of China  
MS Electrical Engineering, East China Normal University, Shanghai, People’s Republic of China  
Dissertation:  
Maximum Likelihood Approaches to Automatic Modulation Classification and Their Applications to Cognitive Radio  
Advisors:  
Wei Su, PhD  
Mengchu Zhou, PhD
COMPUTER SCIENCE

Dibyendu Chakrabarti
BS Computer Science, University of Burdwan, West Bengal, India
MS Computer Science, Indian Statistical Institute (ISI), Calcutta, India
Dissertation:
Applications of Stochastic Simulation in Two-Stage Multiple Comparisons with the Best Problem and Time Average Variance Constant Estimation
Advisors:
James M. Calvin, PhD
Marvin K. Nakayama, PhD

* Kuo-Chuan Huang
BS Information Engineering, Tatung University, Taipei, Taiwan
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
UMLS Source Vocabulary Integration: Concept Association and Validation
Advisors:
James Geller, PhD
Michael Halper, PhD

* Zhiming Liu
BS Electrical Engineering, Sichuan University, Chengdu, Sichuan, People’s Republic of China
MS Electrical Engineering, Sichuan University, Chengdu, Sichuan, People’s Republic of China
MS Computer Engineering, University of Nevada, Reno, Nevada
Dissertation:
Face Recognition Using Multiple Features in Different Color Spaces
Advisor:
Chengjun Liu, PhD

† Charles P. Morrey
BS Computer Science and Information Systems, Utah Valley University, Orem, Utah
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Auditing the Unified Medical Language System and Enhancing the Refined Semantic Network
Advisors:
James Geller, PhD
Yehoshua Perl, PhD

† Suresh Solaimuthu
BE Computer Science and Engineering, University of Madras, Chennai, Tamil Nadu, India
MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Natural Selection on mRNA Secondary Structure and Its Correlation with Protein Functional Groups
Advisors:
Barry Cohen, PhD
Usman W. Roshan, PhD
* Tao Wu  
BE Construction, University of Xi’an Architecture Technology, Xi’an, People’s Republic of China  
MS Computer Science, University of Detroit-Mercy, Detroit, Michigan  
Dissertation:  
A Molecular Dynamics Simulation Based Principal Component Analysis Framework for Computation of Multi-Scale Modeling of Protein and Its Interaction with Solvent  
Advisors:  
Barry Cohen, PhD  
Usman W. Roshan, PhD  
Xiaodong (Sheildon) Wang, PhD

Yuan Yuan  
BE Computer Science and Technology, Zhejiang University of Technology, Huangzhou, People’s Republic of China  
MS Engineering in Computer Applied Technology, Zhejiang University of Technology, Huangzhou, People’s Republic of China  
Dissertation:  
Development of Advanced Algorithms to Detect Characterize and Forecast Solar Activities  
Advisors:  
Ju Jing, PhD  
Frank Y. Shih, PhD  
Haimin Wang, PhD

**ELECTRICAL ENGINEERING**

* Kodzovi Acolatse  
BS Electrical Engineering, School of Engineering, Lome, Togo  
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Design of Single-Carrier Frequency Domain Equalization (SC-FDE) with Transmit Diversity for Wireless and Optical Communications  
Advisor:  
Yeheskel Bar-Ness, PhD

Huaihai Guo  
BS Electrical Engineering, Beijing University of Aeronautics and Astronautics, Beijing, People’s Republic of China  
MS Electrical Engineering, Cleveland State University, Cleveland, Ohio  
Dissertation:  
Underwater Communication via Particle Velocity Channels: Principles, Channel Models, and System Design  
Advisor:  
Ali Abdi, PhD
* Wenqi Guo  
BS Electrical Engineering and Automation, Beijing University of Civil Engineering and Architecture, Beijing, People’s Republic of China  
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Performance of Wireless Sensor Networks under Interference Sources in Intelligent Buildings  
Advisors:  
William M. Healy, PhD  
Mengchu Zhou, PhD

Zhen Qin  
BS Communications Engineering, Beijing University of Posts and Telecommunication, Beijing, People's Republic of China  
MS Electronic Engineering, Queen Mary, University of London, London, United Kingdom  
Dissertation:  
Mechanisms for Quality-of-Service Provisioning in Networks with Extended Services  
Advisors:  
Nirwan Ansari, PhD  
Roberto Rojas-Cessa, PhD

* Nilufa Rahim  
BS Electrical Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh  
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
TiN/HfO2/SiO2/Si Gate Stacks Reliability: Contribution of HfO2 and Interfacial SiO2 Layer  
Advisor:  
Durgamadhab Misra, PhD

* Nicola Varanese  
BS Telecommunications Engineering, Politecnico di Milano, Milano, Italy  
MS Telecommunications Engineering, Politecnico di Milano, Milano, Italy  
PhD Information Engineering, Politecnico di Milano, Milano, Italy  
Dissertation:  
Distributed Synchronization Algorithms for Wireless Sensor Networks  
Advisors:  
Yeheskel Bar-Ness, PhD  
Umberto Spagnolini, PhD
• Lan Yu
  BE Engineering in Control Science and Engineering, Harbin Institute of Technology, Harbin, People’s Republic of China
  MS Control Science and Engineering, Harbin Institute of Technology, Harbin, People’s Republic of China
  Dissertation:
  Model Reference Control for Ultra-High Precision Positioning Systems
  Advisor:
  Timothy N. Chang, PhD

Jingjing Zhang
  BA Electrical Engineering, Xi’an Institute of Post and Telecommunications, Xi’an, People’s Republic of China
  MS Electrical Engineering, Shanghai Jiao Tong University, Shanghai, People’s Republic of China
  Dissertation:
  Optimizing Resource Allocation in Next-Generation Optical Access Networks
  Advisor:
  Nirwan Ansari, PhD

ENVIRONMENTAL ENGINEERING

Ashish D. Borgaonkar
  BE Environmental Engineering, Shivaji University, Kolhapur, India
  MS Environmental and Waste Management, Stony Brook University, Stony Brook, New York
  Dissertation:
  Magnetic Seeding Aggregation to Enhance the Removal Efficiency of TiO₂ Nanoparticles from Water
  Advisors:
  Taha F. Marhaba, PhD
  Tanapon Phenrat, PhD

Bin Wang
  Bachelor of Engineering, Environmental Engineering, Beijing, People’s Republic of China
  Master of Engineering, Environmental Engineering, Beijing, People’s Republic of China
  Dissertation:
  Advisors:
  Lisa Axe, PhD
  Liping Wei, PhD
ENVIROMENTAL SCIENCE
(Degree conferred jointly by NJIT and Rutgers-Newark, New Jersey)

Kenneth Gethard
BA Biology, Montclair State University, Montclair, New Jersey
MS Business Administration-Finance, Montclair State University, Montclair, New Jersey
MA Environmental Management, Montclair State University, Montclair, New Jersey

Dissertation:
Enhanced Membrane Distillation: Analytical and Deionization Applications

Advisor:
Somenath Mitra, PhD

† Nirupama Gupta
BS Microbiology, Maulana Azad College, Maharastra, India
MS Microbiology, Government Institute of Science, Maharastra, India
MS Environmental Science, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
New Tools for High-throughput Screening of Protein Libraries: Engineering Metalloproteins Displayed on Bacillus Subtilis Spores

Advisor:
Edgardo T. Farinas, PhD

† Shih-Yun Kuo
BS Environmental Science, Tunghai University, Taichung, Taiwan

Dissertation:
The Public Understanding of Climate Change: A Case Study of Taiwanese Youth

Advisor:
Maurie Cohen, PhD

INFORMATON SYSTEMS

Muhammad U. Qasim
BS Computer Science, Hamdard University, Karachi, Pakistan
MS Business Administration, Hamdard University, Karachi, Pakistan
MS Information Systems, New Jersey Institute of Technology, Newark, New Jersey

Dissertation:
Active Caching for Recommender Systems

Advisors:
Vincent Oria, PhD
Yi-Fang (Brook) Wu, PhD
MATERIALS SCIENCE AND ENGINEERING

† Anthony I. Elijius
BE Materials and Metallurgical Engineering, Federal University of Technology, Owerri, Nigeria
MS Mechanical Engineering, Rivers State University of Science and Technology, Port Harcourt, Nigeria
Dissertation:
Study of Mechanisms of Phytotoxicity of Alumina Nanoparticles
Advisors:
Somenath Mitra, PhD
Daniel J. Watts, PhD

Zhen Qin
BS Physics, Nanjing University, Nanjing, People’s Republic of China
MS Microelectronics and Solid State Electronics, Nanjing University, Nanjing, People’s Republic of China
Dissertation:
A Study of Three Transition Metal Compounds and Their Applications
Advisors:
Sang-Wook Cheong, PhD
Tao Zhou, PhD

† Sumit Saxena
BS Physics and Mathematics, Bundelkhand University, Jhansi, India
MS Physics, Indian Institute of Technology-Kanpur, Kanpur, Uttar Pradesh, India
Dissertation:
Atomic and Electronic Structure Studies of Nano-structured Systems: Carbon and Related Materials
Advisor:
Trevor A. Tyson, PhD

* James V. Scicolone
BS Chemical Engineering, Penn State University, University Park, Pennsylvania
MS Chemical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Mixing of Nanosize Particles by Magnetically Assisted Impaction Techniques
Advisor:
Rajesh N. Dave, PhD
**MATHEMATICAL SCIENCES**

*Degree conferred jointly by NJIT and Rutgers-Newark, New Jersey*

Suchi Agrawal  
BS Mathematics, St. Stephen’s College, University of Delhi, Delhi, India  
MS Mathematics, St. Stephen’s College, University of Delhi, Delhi, India  
MS Philosophy, University of Delhi, Delhi, India  
Dissertation:  
*Uniform Heating of Thin Ceramic Slabs in a Multimode Microwave Cavity*  
Advisor:  
Gregory A. Kriegsmann, PhD

Rudrani Banerjee  
BS Statistics Honors, Asutosh College, Kolkata, India  
MS Statistics, Visva-Bharati University, Santiniketan, India  
Dissertation:  
*Some Contributions to Modeling Usage Sensitive Warranty Servicing Strategies and Their Analyses*  
Advisor:  
Manish C. Bhattacharjee, PhD

Matthew Causley  
BS Applied Mathematics, Kettering University, Flint, Michigan  
Dissertation:  
*Asymptotic and Numerical Analysis of Time-dependent Wave Propagation in Dispersive Dielectric Media that Exhibit Fractional Relaxation*  
Advisor:  
Peter G. Petropoulos, PhD

Xinxian Huang  
BS Information and Computational Science, Zhejiang University, Huangzhou, Zhejiang, People’s Republic of China  
MS Computational Mathematics, Zhejiang University, Huangzhou, Zhejiang, People’s Republic of China  
Dissertation:  
*Using Feed-Forward Networks to Infer the Activity of Feedback Neuronal Networks*  
Advisor:  
Amitabha Bose, PhD
Matt Malej  
BS Mathematics, New Jersey Institute of Technology, Newark, New Jersey  
MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Numerical and Asymptotic Modeling of Evolving Nonlinear Ocean Surface Wave Fields*  
Advisor:  
Wooyoung Choi, PhD

Jacek K. Wrobel  
BS Mathematics, Academy of Mining and Metallurgy, Krakow, Poland  
MS Mathematics, AGH University of Science and Technology, Krakow, Poland  
Dissertation:  
*High-Order Adaptive Methods for Computing Invariant Manifolds of Maps*  
Advisor:  
Roy H. Goodman, PhD

* Hui Wu  
BA Mathematics, Anhui University, Hefei, Anhui, People’s Republic of China  
MS Computational Mathematics, University of Sciences and Technology of China, Hefei, Anhui,  
People’s Republic of China  
Dissertation:  
*Pattern Formation in Oscillatory Systems*  
Advisors:  
Horacio G. Rotstein, PhD  
Louis Tao, PhD

† Kuan Xu  
BS Mathematics, Beijing University of Aeronautics and Astronautics, Beijing,  
People’s Republic of China  
Dissertation:  
*Computational Methods for Two-phase Flow with Soluble Surfactant*  
Advisors:  
Michael Booty, PhD  
Michael Siegel, PhD
Lianzhe Xu  
BS Mathematics, Capital Normal University, Beijing, People's Republic of China  
MS Applied Statistics, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
*Markovian and Stochastic Differential Equation Based Approaches to Computer Virus Propagation Dynamics and Some Models for Survival Distributions*  
Advisor:  
*Manish C. Bhattacharjee, PhD*

Peixin Zhang  
BS Mathematics, Beijing University of Aeronautics and Astronautics, Beijing, People's Republic of China  
Dissertation:  
*Confidence Bands for Survival Functions under Semiparametric Random Censorship Models*  
Advisor:  
*Sundarraman Subramanian, PhD*

† Qiyi Zhou  
BS Information and Computational Sciences, Zhejiang University, Hangzhou, People's Republic of China  
Dissertation:  
*A Numerical Study on the Propagation and Interaction of Strongly Nonlinear Solitary Waves*  
Advisor:  
*Wooyoung Choi, PhD*

**MECHANICAL ENGINEERING**

Rajeshkumar Patel  
BS Mechanical Engineering, S.P. University, Vallabh Vidyanagar, India  
MS Engineering in Thermal Science, M.S. University, Vadodara, India  
Dissertation:  
*Modeling of Non-uniform Hydrodynamic and Catalytic Reaction in a Solids-laden Riser*  
Advisor:  
*Chao Zhu, PhD*

**TRANSPORTATION**

† Fei Yang  
BS Transportation Management, Shanghai Maritime University, Shanghai, People's Republic of China  
MS Transportation Management, SUNY Maritime University, Throggs Neck, New York  
Dissertation:  
*Weekend Travel Demand Model with Joint Participation and Multiday Time of Day Choices*  
Advisor:  
*Rongfang (Rachel) Liu, PhD*
URBAN SYSTEMS
(Degree conferred jointly by NJIT, UMDNJ and Rutgers-Newark, New Jersey)

Emily J. McGowan
BA Economics, Spelman College, Atlanta, Georgia
MA Special Education, Mercy College, New York, New York
Dissertation:
A Case Study of Dwight Morrow High School and the Academies at Englewood: An Examination of School Desegregation Policy from a Critical Race Prospective
Advisor:
Jamie Lew, PhD

Elizabeth S. Morrison
BA Political Science, Wheaton College, Norton, Massachusetts
MA Secondary Education, The City College of New York, New York
Dissertation:
Family Gentrification, Student Diversity and Academic Achievement: A Case Study of a Parent Organized Charter School
Advisor:
Alan Sadovnik, PhD

† Aditi Sarkar
BS, Calcutta University, Calcutta, India
MS Applied Physics, New York University, New York
MArch, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Accessibility in Metropolitan Transportation Planning: Visualizing a GIS-Based Measure for Collaborative Planning
Advisor:
Lyna Wiggins, PhD

Stephanie C. Smith
BS Early Childhood Education/Psychology, Butler University, Indianapolis, Indiana
MA Secondary Education, Cultural and Educational Policy Studies, Loyola University, Chicago, Illinois
Dissertation:
Race, Class, and Early Childhood Education: A Comparison of Two Different Chicago Preschools
Advisor:
Alan Sadovnik, PhD
## MASTER OF SCIENCE

### BIOMEDICAL ENGINEERING

- Tagwa Abdallah
- Pranay Agarwal
- Swati D. Atalla
- Katherine Susana Andrade
- Robert J. Aquino
- Nadi A. Atalla
- Gaurav Sunil Bagwe
- Naimisha Reddy Beeralou
- Ravi Rajendra Patil
- Vishal K. Patel
- Tanmay Shirish Pathe
- Pritam Anil Patil
- Steffen A. Pharai
- Asha Aravindakshan Pulikkal
- Sumit Rana
- Katherine A. Reighard
- Elizabeth C. Saharig-Romero
- Rimi Sahu
- Sujithra Sampath
- Nancy L. Sehgal
- Anushree B. Shah
- Jigger Nitin Shah
- Riddhi H. Shah
- Mark R. Shaker
- Roman Shikhmanovich
- Ishnoor Sidhu
- Daniel A. Taddeo
- Swetha Tiwari
- Lori A. Trofinoff
- Amit K. Tyagi
- Derek S. Yip
- Maurizio Zanni

### CHEMICAL ENGINEERING

- Olatilewa O. Adetula
- Alaa T. Alharizah
- Adebayo A. Atunrase
- Tejal Bhingadia
- Xiaoweii Deng
- Edward V. Dougherty
- Jia Fan
- Paul J. Kirkpatrick
- Farrah L. Fontaine
- Bin Lin
- Jing Liu
- Sabrina Matheus
- Alexandre M. Monteiro
- Tariq Moujahid
- Troadio E. Mundin
- Gbenga M. Omojowo
- Jignesh Patel
- Niraj V. Patel
- Ronak M. Shah
- Guanghui Song
- Aditya Narain Shukla
- Rayon Andre Williams
- Guangyu Zhang

### CIVIL ENGINEERING

- Meena Y. Abdelkodoos
- Taiwo O. Adelani
- Adenike A. Aseyeba
- Danish Ahmed
- James R. Allegra
- Catherine S. Aker
- Aldo J. Badillo
- Mohamed Alaah Ahmed
- Bassioumy
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- Brian T. Felber
- Kevin C. Flanagan
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- Zoila Hernandez
- Edward A. Hughes
- Holtisa Jovani
- Nehemie L. J. Juleus
- Ruhan Kang
- Andrew J. Kelemen
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- Divya Kumar
- Richard J. Lindsay
- Carlos A. Lopez
- Enkela Malelari
- Mariusz K. Mazur
- Miroslaw Mazur
- Kyrillos M. Meshe
- Ruth E. Mogro
- Sameer Ahmed Mohammed
- Bhavesh A. Patel
- Darshna A. Patel
- Anis K. Rawashdeh
- Steven Roberts
- Justin S. Saler
- Antonio D. Sampedro

---

† — August 2010 graduates  
* — January 2011 graduates
<table>
<thead>
<tr>
<th>CANDIDATES FOR MASTER'S DEGREES</th>
</tr>
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<tbody>
<tr>
<td>* Hugh W. Conway</td>
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<tr>
<td>Alicia E. Correa</td>
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<td>Basil D'Armiento</td>
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<td>Sonia Das</td>
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<td>* Kevin Daubert</td>
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<td>* Glenn Loquias Gamolo</td>
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<td>Sakinah Hofer</td>
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<td>ENVIRONMENTAL ENGINEERING</td>
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<td>* Michelle A. Herishko</td>
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<td>Joshua Landecker</td>
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<td>Claudia P. Lopez-Arcila</td>
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<td>* Michal S. Mierzwa</td>
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<td>Jennifer R. Rivers</td>
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<td>Drew Terpenning</td>
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<td>HEALTHCARE SYSTEMS MANAGEMENT</td>
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<td>Sandip J. Bodalia</td>
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<td>* Devyani Kaushik</td>
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<td>* Mbole Ekaney</td>
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<td>INDUSTRIAL ENGINEERING</td>
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<td>Wilberth Acevedo</td>
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<td>* Ikenna O. Achara</td>
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<td>* Nimit Bharatkumar Shah</td>
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<td>* Trisha Thokala</td>
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<td>* Marisol Torres Esquivel</td>
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<tr>
<td>INTERNET ENGINEERING</td>
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<tr>
<td>Bo Chen</td>
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<tr>
<td>Periklis G. Lampros</td>
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<tr>
<td>* Matthew C. Paccione</td>
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</tbody>
</table>
## CANDIDATES FOR MASTER'S DEGREES

### COLLEGE OF ARCHITECTURE AND DESIGN

### MASTER OF ARCHITECTURE

| * Katherine M. Campagna | Jenessa R. Frey | Ilkay Standard |
| * Maciej A. Cybulski | Shi Guo | * Jennifer M. Switala |
| Jillanne Debari | Brad J. Kern | |
| Mariano Delgado | Jennifer-Kristine M. Mortensen | |
| Adam V. D’Elia | * Maysa Musbah | |
| * Collin R. Erickson | Meagan A. Odell | |
| * Yeshayahu Feinberg | * Afarinsadat Sajjadi | |
| * Steven C. Folkes | * Vasil Shyta | |
| | Gurinderjit Singh | |

### MASTER IN INFRASTRUCTURE PLANNING

| Angelena M. Badillo | * Katherine M. Campagna | * Stacy Mulrain |
| * Gregory Bassiely | * Steven C. Folkes | Renuksa Z. Papalexioou |
| Veer Arjun Busani | * Candido S. Gude | Pallavi Shinde |
| | Kelvin K. Lam | |
| | * Cynthia L. Montalvan | |

### MASTER OF SCIENCE IN ARCHITECTURE

| * Allen M. Barkkume | Eugene F. Dassing | Fariaz Mahmud |
| Chitra Chandrasekharan | Ana Sofia Dos Santos Vintem De Sousa | |
| Nambiar | * Henry J. Friedel | * Brandice K. Severin |
| | | * Uriel A. Stern |
CANDIDATES FOR MASTER'S DEGREES

COLLEGE OF SCIENCE AND LIBERAL ARTS

MASTER OF SCIENCE

APPLIED MATHEMATICS
* Iveta Jancigova
  † Matt Malej
  Gregory D. Morton
  † Bhaumik Vinod Patel
  * Kathryn L. Robertson
  † Krzysztof Serylo
  * Matthew S. Stefanski
  † Matthew John Wright

CHEMISTRY
* Aniket Desai
  * Yang Fan
  Fei Gu
  Shao-Chun Hsu
  Kunal B. Joshi
  * Michael A. Lombardy
  * Mary A. Palacios
  * Fan Yang
  George O. Yeboah
  Ye Ying
  Yunqi Zhouyang

APPLIED PHYSICS
Keri E. Salvador
* Eric C. Standard
  † Kevin D. Urban
  * Zhitao Wang

APPLIED STATISTICS
Justin Boyd
* Arya Dadgar
  * Yuan Gao
  Yao Huang
  * Sun Y. Kim
  * Mercedes Lueck
  Jarrod Pappalardo
  Apexa H. Patel
  Jia Pu
  Gene C. Wong

BIOSTATISTICS
Nubrya Ahmed
Dante G. Dangelo Kemp
Yan Fang
* Benjamin B. John
  John Muscatiello
  Xiaohong Ren
  Emmanuel M. Sarkodie
  * Joyasree Sutradhar

MATHEMATICAL AND COMPUTATIONAL FINANCE
* Szu-Pei Fu
  William M. Hourican
  * Falak Naz

MATERIALS SCIENCE AND ENGINEERING
Rajeev Rajanarayanan

PHARMACEUTICAL CHEMISTRY
Keerthi Annavarapu
Sumit Charaya
Swaditha Ellanki
Rajni Gupta
Dharmit Bharatkumar Patel
Hardikkumar J. Patel
Jigneshkumar K. Patel
Priya C. Patil
Sathish Seenivasagan
Manankumar Shah
Purvi C. Shah
Jing Tu

PROFESSIONAL AND TECHNICAL COMMUNICATION
* Ben Bristow
  * Phoebe I. Del Boccio
  Kimberly T. Mobley
  † Brian Charles Glassman
  † Christine Sokoloski
  † Frank John Tanzosh
  † Natalie Ann Ward
CANDIDATES FOR MASTER’S DEGREES

SCHOOL OF MANAGEMENT

MASTER OF BUSINESS ADMINISTRATION IN MANAGEMENT OF TECHNOLOGY

Roby Abraham
Kwabena Adjei
Vinodkumar Anbalahan
Ikenna Anyanwu
* Chotikorn Buranarachada
Man Wai Chan
Ching-Jung Chang
Hung-Wei Chang
Meng-Chu Chen
* Paul R. Foglia
* Harshitkumar Girishchandra Gandhi
Natalie M. Gatchalian
Dan Vinicius Gheorghiu
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Basile G. Halkiadakis
* Syed E. Haq
Jason H. Hartman
Vipul Hasija
Michael W. Hodgetts
Xiaoping S. Hu
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Yin-Yin Kuo
* Alfred Lombardi
Karen J. Marques
Rakesh Mathew
* John M. Mieszkowski
Angelica M. Ogando
* Brijesh Patel
* Divyeshkumar Thakorbhai Patel
Kuntal K. Pathak
Vignesh Ramanan
Soumendra K. Rath
Michael A. Robbins
Brandon Rockwell

* Janet L. Sautler-Hemmer
* Ashini Shah
Bhaumik S. Sharma
Mohit Sharma
Rahul Shyam Sharma
* Nishkala Sirikananthan
Richard V. Snyder
Vijay Subramani
* Fatima N. Sylla
Brian M. Taylor
Amit Trivedi
Robert C. Uche
Srinivas Velagapudi
Anna Vilarnau
Kenneth C. Welch
* Kareem Williams
† ChangYuan Wu
† Tzu-Hung Yang
† Tommy Zambrzycki

MASTER OF SCIENCE IN MANAGEMENT

Adewale O. Adedeji
Mahesh Bakaya
Wali C. Barker
David H. Bebawy
Amit Bhatt
Dhaval Satishkumar Bhavsar
Audrey Britton
* Dylan J. Broadley
Jessica Bucco
* Andrea Butler
* Lei Cao
Ivan A. Cavieses
Pei-Yu Chien
* Ying Cui
Ljudmila Dalia
Vanessa Eng
Gary W. Garris
Nicole Gayle
Bingyi Han
Jaaysyn J. Hicks
* Premkumar Jagannathan
* Brett L. Johnson
Bhininder Kaur
Michael R. Lawson
* Wei-Ting Lin
* Yu-Lun Lin
* Marsha S. Lindsay
* Swathy Magham
† Jose Reynaldo Bartone Martins
† Tymothy John Meyerhoff
* Kevin M. Michalski
* Kaamil B. Ravalia
† Radhika Sharma
* Joel W. Tanis
Jijo Thomas
Chetasee J. Trivedi
† Hui Yu Wu
† Kehuan Zhang
Mengmeng Zhang
Shengchen Zhu

* Alma Maria Minarolli
Stevens Naranjo
Saban Hakan Pay
* Angel A. Perez Jr.

MASTER OF SCIENCE IN INTERNATIONAL BUSINESS

† Jose Reynaldo Bartone Martins
† Tymothy John Meyerhoff
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† Kehuan Zhang
Mengmeng Zhang
Shengchen Zhu

* Alma Maria Minarolli
Stevens Naranjo
Saban Hakan Pay
* Angel A. Perez Jr.
CANDIDATES FOR MASTER’S DEGREES

COLLEGE OF COMPUTING SCIENCES

MASTER OF SCIENCE

BIOINFORMATICS
- Ozgur Akcan
- Greg Chen
- Sujiith Dandamudi
- Niraj Jayantibhai Desai
- Young Jae Hur
- Pragya Jain
- Hafejula Kalluri
- Vishnu Vardhan Reddy Kolla
- Hsiung-Hseng Lee
- Naga Praneetha Mailavara
- Ankur Malhotra
- Paritaa Mandal
- Devashi Chhaganbhai Nakrani
- Anooop R. Nerallapally
- Yanzhuo Pan
- Jay Prakashchandra Patel
- Mitulkumar G. Patel
- Raghavendra Kalyan Chakravarti Pendem
- Meera Prasad
- Swainith Settipalli
- Arpit Jatin Shah
- Krupa Sanjay Shah
- Usha Parmanand Sharma
- Madhu Keerthi Vuppalapati Kodandarama Naidu

BUSINESS AND INFORMATION SYSTEMS
- Seshasai M. Adibhatla
- George A. Antonios
- Pauline O. Azegbemhin
- Kenneth C. Cheng
- Heriberto Cordero
- Monika Dawidczyk
- Chitra Gangireddy
- Danielle L. Green
- Derek O. Iyoha
- Kimberly Johnson
- Jaiic Joseph
- Suraj V. Kapadia
- Ashish Girdhari Lal
- Lenore J. Leong
- Jeevan Madala

COMPUTER SCIENCE
- Adekunle S. Oladele
- Anju M. Patel
- Keyur Shashikant Patel
- Vinita Patil
- Nikhil C. Pawar
- Bharathi Ponnappan
- Michael D. Salkin
- Paul J. Schober
- Owolabi Abdulfatai Tijani Atman D. Trivedi
- Vahid A. Toorzani
- Sanhit R. Kommareddy
- Alekhya Koripella
- Anupama Kuchibhatla
- You Li
- Vijay Mahadevan
- Anjan Vinodchandra Mehta
- Rajendra Kumar Midde
- Venkata
- Denise N. Miguel
- Abhishek Avinash Mirajkar
- Premal Jayantibhai Mistry
- Padmapriya Nagineni
- Mou Nandi
- Krishna Chaitanya Nerella
- Christopher R. Ochs
- David J. Panek
- Gilberto Parker
- Keyurkumar N. Patel
- Vrunda V. Patil
- Hannibal H. People
- Kokou G. Pemou
- David Poling
- Subodh Ulhas Raiborde
- Thejomei Anandan Rajaram
- Poornima Rajendhran
- Suyash Ramineni
- Antonio Rodriguez
- Rafael E. Rodriguez
- Ricardo J. Sanchez
- Kshitij Sushil Sangani
- Bharat Kumar Saraswat
- Akash Sanjaykumar Shah
- Madhav Harkishan Shah
- Shrutee Chetan Shah
- Zankruti Mukesh Shah
- Richard T. Shambaugh
- Nayel A. Shehadeh
- Neel Lomeshkumar Sheth
- Richa Shukla
- Itisha Singh
- Sandeep Singh
- Navita Singroha
- James M. Siocum
- Naihui Song
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Gundlupet Shashikala
Doreswamy Sreenidhi
† Chitra Sridhar
Yuwen Sun
† Dheeraj Tanwar
Terishka Reddy Timma Reddy
† Ku Yu Tsui
† Ku Yueh Tsui
† Naga S. Upadrasa
† Eduardo R. Valdez-Guillen
Vimal Varadachari
Infant Rosario Vasanth
Alekandr Vinokurov
* Yan Wang
Dongdong Xiao
* Abhinav Yadav
Chia-Yang Yen
* Dennis A. Wendell
* Wei Zhu

COMPUTING AND BUSINESS
* Priyanka Ranjan Bhattacharjee
Na Liu
* Edmund Spence

EMERGENCY MANAGEMENT AND BUSINESS CONTINUITY
Michael Fonseca
* Paul A. Ray

INFORMATION SYSTEMS
Margaret Abishai
† Fritz Aly
Alison S. Amparo
Radhiha Appasani
Manoj Aravapalli
† Matthew A. Arnao
† Vickii Bacchetta
Kartik Bhatta
† Dinesh Bilimoria
† Michael Carpenter
† Thomas Cassidy
Mutlu Cesur
* Preethi Chandramouli

Joe Chimento
† Lisa J. Chiu
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Christopher W. Connelly
† Matthew Diamond
† Sara Diaz-Mayo
* Nitika Datta
Christian Del Pino
Christopher Earle
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* Ayanna Francis
Shang Gao
* Frank Graziano
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Adam J. Helfer
* Kuo-Feng Hung
Mohamed M. Jalloh
† Cherokee D. Jest-Allen
Flora Kedar Jha
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Sailani Kumar
* Reynold Cherian
Kuriappurath
Marc R. Labay
† Walter B. Lacorte
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† Shounka Singh Maan
* Gregory Marchini
Carlos Martin
* Francisco Mateo
Savita Mathur
Anand Mehta
Shruti Mehta
Arie Meidav
† Aleem A. Mohamed
* Aslam Y. Momin
* Narendra Radhesham
Mundada
Patrick A. Opaola
† Smita Pataskar
Mariella Payyappilly
Andrew R. Phillips
Jawed Abdulali Prasla
† Christopher Scott Roche
Kevin G. Rodgers
Wandy Romain
Mukul Sapre
* Arpi Shah
* Saurabh G. Shah
Luv K. Shah
* Swetal T. Shah
† Bigyan B. Sijapati
* Gaurav Singh
† Michael I. Sorin
* Priyanka SundaraRajan
Richard N. Thompson
Abhishek A. Tiwari
Tiffany Tucker
David J. Vaughn
Christian B. Veluz
Arwa M. Wali
Christopher D. Wamble
* Tsui-Ying Yen
* Nermine Yildiz
Kamran M. Younis
* Rodiber F. Zambrano

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* Wilex N. Amboise
Angelo Anastasi
Abubraheme M. Choudry
Danny Dimoski
George Eliopoulos
* Erica A. Feldman
Derrick T. Ketchen
Peter J. Klabe
* Yagnesh Naik
Diego E. Neira
* Mark J. Nouri
Chaitali Raghuram Rao
Luv K. Shah
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Tiffany Tucker
David J. Vaughn

SOFTWARE ENGINEERING
* Miguel Lomba
Nafi C. Diallo
* Mrugen Jayesh Mehta
CANDIDATES FOR MASTER'S DEGREES

INTERDISCIPLINARY PROGRAM

MASTER OF SCIENCE

MATERIALS SCIENCE AND ENGINEERING

† Shangshang Mu
# Candidates for Baccalaureate Degrees

## Newark College of Engineering

### Bachelor of Science

#### Biomedical Engineering

- Jacquelin W. Abdelmalek  
  Jersey City  
- Aamir Ahmed  
  Teaneck  
- Aashitha M. Alexander  
  Parsippany  
- Noel Alfonso  
  Jersey City  
- Murad N. Alm urqaten  
  West Paterson  
- Arif Arifi  
  Pompton Plains  
- Moeen Arshad  
  Union  
- Carlo T. Baylosis  
  West New York  
- Angela M. Calderon  
  North Bergen  
- Rodrigo Castillo  
  Secaucus  
- Mili Dave  
  Edison  
- Mariemme Dembele  
  Rome, Italy  
- Purvi G. Desai  
  Lodi  
- Hussam S. Eltoukhy  
  Farmingdale  
- Miriam Farag  
  Highland Park  
- Michael M. Ghobrial  
  East Brunswick  
- David Glowiak  
  Carlstadt  
- Mary Gong  
  West Orange  
- Phillip L. Gonzalez  
  Avenel  
- Ketan M. Gujarathi  
  Belleville  
- Mateusz J. Hanas  
  East Rutherford  
- John G. Henen  
  Lodi  
- Alexander Henriquez  
  Bogota  
- Bushra Hossain  
  Montreal, Canada  
- Mohammad A. Hussein  
  Clifton  
- Anas M. Jaber  
  Teaneck  
- Allen S. Jayaraj  
  Raritan  
- John M. Johnson  
  Bergenfield  
- Tijo Joseph  
  Maywood  
- Mohamed Khalil  
  Lincoln  
- Ankita Khatri  
  Avenel  
- Benjamin Lieberman  
  Lakewood  
- Stephanie M. Masotti  
  South Salem, NY  
- Dina A. Mekhail  
  South River  
- Sara G. Mina  
  Livingston  
- Arun Minupuri  
  Livingston  
- Khaja A. Mohiuddin  
  Hackensack  
- Janetta Morris  
  Newark  
- Srihari Mummid  
  East Brunswick  
- Maliha Muneeer  
  Jersey City  
- Anjali Nandakumar  
  Somerset  
- Marko Nashed  
  Jersey City  
- Yamin A. Noor  
  Newark  
- Julian Nowak  
  Lodi  
- Christopher D. Ojeda  
  Edison  
- George A. Okello  
  Sayreville  
- Fenil Patel  
  North Bergen  
- Gautami Patel  
  Hackensack  
- Namrata K. Patel  
  East Orange  
- Sketa Patel  
  Parsippany  
- Suril P. Patel  
  Monroe Township  
- Nicholas Percontino  
  Holoken  
- David A. Rose  
  Wayne  
- Justin E. Scharf  
  East Brunswick  
- Krutanjali M. Shah  
  Edison  
- Prachi Shah  
  Old Bridge  
- Satwik H. Sharma  
  Kendall Park  
- Cristian Torres  
  Elmwood Park  
- Sai Ka O. Tsang  
  North Bergen  
- Thomas M. Tylutki  
  Railway  
- Saariga Uma  
  Fair Lawn  
- Gobiga Vanniyasingam  
  Newark  
- Behroz Vaziri-Khorrami  
  Livingston  
- Ankit D. Vyas  
  Franklin Park  
- Mariam M. Yanni  
  Jersey City  
- David G. Yousef  
  Short Hills

† — August 2010 graduates  
* — January 2011 graduates
CHEMICAL ENGINEERING

Wasseem Abugosh
Parsippany

William N. Addo
Irvington

† Jonathan D. Afonso
Mountainside

Elijah Amrh
East Orange

* Ashishkumar Manilal Amin
Jersey City

Michelle Angeles
Perth Amboy

Aniruddha Banerjee
Edison

Andrew D. Bernosky
Roseland

Sonali Bhatnagar
Jersey City

* Matthew J. Capone
Toms River

* Po-Fu Chen
Edison

Charles A. Como
Eastampton

† Mara F. Crespo
Carteret

* Fatima Fabara
Passaic

† Khalil Farooqui
Jersey City

Robert M. Fego
Clifton

* Antioli Gerges
Jersey City

* Ahmed B. Hamiss
Orange

Chelise A. Hutchins-Gray
South Plainfield

† Simon Huynh
Bridgewater

Magnus O. Jeran
Metuchen

Maria W. Khouzam
Clifton

Jing Liang
Nampa, ID

Nikola Maric
Pompton Lakes

Karen A. Martinez
Union City

* Ramy W. Marzouk
Jersey City

Shady Massoud
Dayton

Jibin P. Modayil
West Orange

Harry Obamije
Bogota

Sussan O. Oweisie
Maplewood

Kevin A. Patel
Jersey City

Siddharth Patel
Jersey City

Melissa L. Paul
Calgary, Canada

Jeremy M. Peters
Somerset

Kathy A. Ramos
Newark

Alex Rassekh
Fair Lawn

Carmella E. Roberson
Galloway

Nabeel M. Samra
North Bergen

Merna W. Samuel
East Brunswick

Noelle F. Sceen
East Orange

* Mona M. Soliman
East Brunswick

* Man M. Trinh
Jersey City

* Grace E. Vasquez
Elizabeth

Tuan L. Vo
Bridgewater

Rachel E. Wallner
Lindenhurst, NY

CIVIL ENGINEERING

Christian G. Abarca
Edison Park

† Talal A. Abdalla
Jersey City

Ahmad Ahmad
Paterson

Adeola O. Akere
Union

Timothy J. Allerdings
Succasunna

Jose L. Alvarez
Jersey City

Ahmed M. Amin
Jersey City

* Ahouah Alexis Amoa
Metuchen

Jerry S. Amoah
Newark

Anil Arkaik
Jersey City

* Andrew Barthalis
North Brunswick

Michael Bastos
Parsin

Victor I. Benitez
Warren

Giorbis Bermudez
Elizabeth

† Syed Ali Mohamed Bilgrami
Galloway

Mason P. Branco
Hollmdel

David J. Chew
Lafayette

Jan J. Chwiedosiu
Stirling

Charles Cooper
Maplewood

Keith J. Corkery
Fair Lawn
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<td>Melissa A. Garcia</td>
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<td>Kenneth F. Gilbertson</td>
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<td>Andrew J. Goetz</td>
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<td>Arsany Habib</td>
<td>South River</td>
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<tr>
<td>Kristine M. Haeckel</td>
<td>St. Louis, MO</td>
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<td>Sana I. Hassan</td>
<td>North Brunswick</td>
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<td>Joel Henriquez</td>
<td>Trenton</td>
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<td>Elkin Hernandez</td>
<td>North Bergen</td>
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<td>Roy Huayunga</td>
<td>Newark</td>
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<td>Kaises A. Iwuagwu</td>
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<td>Joseph Judge</td>
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<td>Vincent D. Kelly</td>
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<td>Frank A. Lombardi</td>
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<td>Carlos A. Lopez</td>
<td>North Bergen</td>
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<td>Eliot A. Lora Rodriguez</td>
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<td>Tai T. Luu</td>
<td>Belleville</td>
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<tr>
<td>Ora Mahgerfeteh</td>
<td>Rockaway</td>
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<tr>
<td>Ashar Mahmood</td>
<td>Hasbrouck Heights</td>
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<tr>
<td>Mariana D. Maldonado</td>
<td>Elizabeth</td>
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<tr>
<td>Guillermo R. Marquina Viera</td>
<td>Sparta</td>
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<td>Francis D. Marucci</td>
<td>West Long Branch</td>
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<td>William Gordon McMullen</td>
<td>Newton</td>
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<td>Daniel Palmadesssa</td>
<td>Closter</td>
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<td>Jason C. Pancoast</td>
<td>North Caldwell</td>
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<tr>
<td>Jasmin M. Pansuriya</td>
<td>Elmhurst Park</td>
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<td>Digant G. Patel</td>
<td>Iselin</td>
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<tr>
<td>Falguni Patel</td>
<td>Jersey City</td>
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<td>Jaimin Patel</td>
<td>West Caldwell</td>
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<tr>
<td>Jay B. Patel</td>
<td>Edison</td>
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<tr>
<td>Krunesh D. Patel</td>
<td>Piscataway</td>
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<tr>
<td>Nikunj R. Patel</td>
<td>Jersey City</td>
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<tr>
<td>Niraj S. Patel</td>
<td>Iselin</td>
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<tr>
<td>Vimalkumar Patel</td>
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<tr>
<td>Bhushan V. Pathare</td>
<td>Dayton</td>
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<tr>
<td>Raymond L. Persaud</td>
<td>Jersey City</td>
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<tr>
<td>Sally C. Peterson</td>
<td>Lake Hopatcong</td>
</tr>
<tr>
<td>Antonia Petrou</td>
<td>Astoria, NY</td>
</tr>
<tr>
<td>Hai P. Pham</td>
<td>Jersey City</td>
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<tr>
<td>Jonathan David Pierson</td>
<td>Howell</td>
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<tr>
<td>Robert John Pietrocola</td>
<td>Parlin</td>
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<tr>
<td>Robert Pinedo</td>
<td>Orange</td>
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<tr>
<td>Ashley J. Ralston</td>
<td>North Plainfield</td>
</tr>
<tr>
<td>Justin J. Rauch</td>
<td>Clifton</td>
</tr>
<tr>
<td>Patty C. Robles</td>
<td>Jersey City</td>
</tr>
</tbody>
</table>
Candidates for Baccalaureate Degrees

Computer Engineering

- Anubha Ahluwalia
  Dumont

- Pierre C. Al-Achkar
  North Brunswick

- Keyur J. Amin
  Denver, CO

- Christopher N. Awad
  Haskell Heights

- Damir Azdajic
  North Bergen

- Marian Noeman Aziz
  Bayonne

- Darnell Bradford Jr.
  Irvington

- Ali Charaf
  Teaneck

- Craig Ciccone
  Hopatcong

- Jonathan H. Copp
  Ridgewood

- Adisa R. Craig
  Couva, Trinidad and Tobago

- James Walter DuDasko
  Lakewood

- Seyfettin Fakoglu
  Seaford, DE

- Jaime A. Fernandez
  Belleville

- Joe Fernandez
  Harrison

- Joseph A. Haluska
  Pompton Lakes

- Samer K. Hamad
  Clifton

- Christopher Jaeger
  Stockholm

- Venkata Chaithanya K. Kajur
  Iselin

- Ajen M. Kansara
  Hillside

- Jakub Kolodziejski
  Totowa

- Pinal A. Mehta
  Passaic

- John L. Micale
  Spotswood

- Joseph P. Mitchko
  Flemington

- Marek F. Modla
  Wallington

- Ky H. Nguyen
  Somerdale

- Eric V. Nilsson
  Wayne

- Diana C. Orellano
  Lodi

- Dennis R. Oviedo
  Hoboken

- Mikul M. Patel
  Jersey City

- Jean-Valvert Perard
  Irvington

- Reginald Philippe
  Roselle

- Mario Antonio Pineda
  West New York

- Leonardo Pugliese III
  Nutley

- Jaime G. Quevedo
  Howell

- Kevin T. Salvatore
  Sewell

- Clifford W. Schaefer
  Bayville

- Priyanka J. Shah
  Fords

- Prateek Sharma
  Belleville

- William R. Shelton
  Jersey City

- Michael C. Stefanyak, Jr.
  Union

- Jigar Tailor
  Nutley

- Kevin W. Tung
  Rockaway

- Jonathan L. Valdez
  Kearny

- Phillip J. Walenty
  Neptune

- John W. Williams
  Summit
ELECTRICAL ENGINEERING

† Ahmed M. Abdelghafar
Elizabeth
Derek M. Acevedo
Newark
* Syed W. Ahmed
Plainfield
Ndubisi Ahukanna
West Orange
† James Akinleye
Irvine
* Kevin M. Argentieri
Milford
* Mehmet Nuri Ayyildiz
Lyndhurst
Kenneth E. Bachir
Wayne
Shaneeka A. Banks
Orange
Wilson L. Barrero
Lodi
Kate Boardman
New Providence
* Vijay M. Budhan
South Plainfield
* Roger S. Cameron
Newark
† Andrew Carreno
West Orange
Dante A. Castillo
Passaic
† Pyung H. Choi
Fords
Keon A. Clinton
Somerset
Christopher G. Cooke de Pradena
Warren
* Mordechi Dahan
Passaic
Daniel J. Dela Cruz
Old Bridge
Ricardo Dias
East Newark
Peter W. Dorkhom
Ridgewood
Francisco Flores
Perth Amboy
* Malick Fofana
Newark
Mark Fonseca
Roseland
Konstantin Gerlovin
Livingston
Maddiel Gonzalez
West New York
* Abdel Hezzini
Secaucus
Erick D. Jordan
Trenton
* Kunal S. Kadakia
Morris Plains
Muhammad I. Khan
Jersey City
* Erick Khemraj
East Orange
Yasir Khurshid
Boonton
Haley Kim
Bayonne
Łukasz K. Konik
North Haledon
Grace Lee
Tinton Falls
Jennifer A. LeMar
Union
Darryl E. Lewis
Secaucus
W. K. Lidman
Kinnelon
Michael Z. Mantione
Galloway
William Marin
Union City
† Michael K. Morris
Jackson
Kyrillos Mossad
Kearny
† Madhurima Nautilyal
Airmont, NY
George Osei
Newark
* Amit M. Patel
Newark
† Puspak K. Patel
East Orange
Raj S. Patel
Iselin
* Phong Pham
Clifton
Robert J. Pickel
River Edge
Genesis Polanco
Kearny
† Alexis Gerardo Quintero Castro
Belleville
* Inam Rab
Jersey City
* Dhiran J. Rana
Passaic
* Geet N. Rana
Passaic
* Andres D. Rios
Harrison
* Danny Rivera
Newark
Erik T. Rivera
Jersey City
† Jesus Rafael Vasquez Sarmiento
Toms River
Koray C. Satili
Forked River
Kodjo N. Segbo
Newark
* Bhavik G. Shah
Clifton
* Saurabh Singh
North Brunswick
* Coverdale D. Stanley
Union
† Fation Stroni
Garfield
† Dmitry Vaynberg
Montvale
Roberto C. Ventura
West New York
* Senaka Weerahandi
Edison
* Julio C. Zarate
Wood Ridge
Mahmood Zidan
Clifton
**ENGINEERING SCIENCE**

<table>
<thead>
<tr>
<th>NAME</th>
<th>CITY</th>
</tr>
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<tbody>
<tr>
<td>Kellie L. Garrigan</td>
<td>Montague</td>
</tr>
<tr>
<td>Baheer Halim</td>
<td>West Orange</td>
</tr>
</tbody>
</table>

**ENGINEERING TECHNOLOGY**

**Computer Technology Option**

<table>
<thead>
<tr>
<th>NAME</th>
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<tr>
<td>Mohamed Abdellatif</td>
<td>Clifton</td>
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<td>Jeffrey N. Cuttino</td>
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CANDIDATES FOR BACCALAUREATE DEGREES

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INDUSTRIAL ENGINEERING

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Tiffany Mckoy  
Paterson
* Rishi Mehra  
Newark
* Erik J. Murrell  
Denville
* Nancy N. Neshievat  
Washington
Jurrelle I. Pasion  
Newark City
Bhavik Patel  
Jersey City
* Tushar V. Patel  
Old Bridge
Tara E. Rhett  
Brooklyn, NY
* Steven Ribeiro  
Elizabeth
* Andrea K. Rodriguez  
Passaic
Justin D. Schwarz  
Dumont
* Akash R. Shukla  
Warren
Alfred H. Soliman  
Bayonne
Zhenxing Sun  
Secaucus
Marcus L. Williams  
Williamstown
* Ashutosh Micheal Xalxo  
Belleville

MECHANICAL ENGINEERING

Firas N. Abouseido  
Lake Hawatha
* Alexander B. Adams  
Succasunna
Syed N. Ahmed  
Atlantic City
* Raphael O. Nnamdi Akinsete  
Newark
* Patrick M. Alvarado  
Trenton
Jonathan R. Ambubuyog  
Jersey City
Mark A. Andersen Jr.  
Branchville
Malik-Ul A. Aziz  
Newark
Andrew Bae  
Edison
* Carlo Badiola  
Union
* Christopher J. Borie  
Hewitt
* Stephanie Joy E. Browning  
Plainfield
* Michael Cabal  
Union City
Michael R. Caprio  
Union City
* Daniel F. Carrera  
Hudson
* Maciej Cherkowski  
Linden
Nathaniel Ching  
Middletown
David Clark  
Scotch Plains
Philip A. Clark  
Hilliard
Luis R. Colmont  
East Brunswick
Sean K. Crawford  
Newark
* Joseph T. Dallesio  
Belleville
Erik G. Demen  
Morris Plains

* Jay D. Desai  
Bloomfield
Glenn Duenas  
Freehold
Durand D. Durga  
Bayonne
* Adel A. Elbadry  
Jersey City
Stephen Elliott  
Rutherford
Mina N. Fanous  
North Bergen
* Karim A. Figueroa  
Newark
Stanley A. Gawlik  
Wallington
John E. Giraldo  
Linden
Stefany E. Gonzalez  
Lyndhurst
* Charles M. Greenwald  
Wayne
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Robert Kalinowski  
Elmwood Park
* Jennifer M. Lake  
Little Egg Harbor
* Vinhan P. Le  
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CANDIDATES FOR BACCALAUREATE DEGREES

COLLEGE OF ARCHITECTURE AND DESIGN

BACHELOR OF ARCHITECTURE

- Taiwo Oluwatosin Adelani
  Newark
- Marlon Alexander
  Totowa
- *Anthony J. Allocca
  Florham Park
- *David B. Andriola
  Union
- Edwin Arbito
  Hightstown
- Dwayne C. Atherley
  Piscataway
- Stephen Bagnato
  Jackson
- Rodrigo A. Balarezo
  Bloomfield
- Kristina Bascandzieva
  Edison
- Christina A. Bellero
  West Long Branch
- Walter D. P. J. Brandt
  Vienna
- Elizabeth M. Burke
  Phillipsburg
- Alexander John Carlson
  Sparta
- Brett M. Carr
  Dallastown, PA
- Allan Catchpole
  Stockton
- *Franklin H. Cedillo
  Elmwood Park
- Katherine E. Cerniglia
  Lindenhurst, NY
- Joseph M. Cestaro
  Denville
- *Miguel A. Claros
  Verona
- Michal Cohen
  Springfield
- Rosanna B. Collins
  Bloomfield
- Cara J. Constantino
  Bloomfield
- Andrew P. Coslow
  Bayville
- April J. Covington
  Newark
- Meghavi K. Dave
  Iselin
- Justin T. Dedio
  Rockaway
- †Theodore Geoffrey Demiduke
  Pitman
- †Thomas J. Dores
  Union
- †Kristi Leigh Drake
  Pilesgrove
- Kielan E. D’Souza
  Boonton
- †Jorge P. Fernandes
  Harrison
- Tania M. Forgacz
  Saddle Brook
- †Christopher H. Francisco
  Newark
- Nicholas Giuliano
  Roselle Park
- Siro A. Gonzalez
  Elizabeth
- *David L. Grierson
  Williamstown
- Carlos A. Guzman
  Orange
- Shannon E. Hohlbein
  Pennington
- Kyle B. Houser
  Barnegat
- Christian S. Howell
  Robbinsville
- Michael J. Hreczny
  Short Hills
- †Nader H. Ibrahim
  Old Bridge
- *Anthony B. Klokis
  Parlin
- Dana Koenitzer
  Medford
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Matthew R. Minassian  
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**SCHOOL OF MANAGEMENT**

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<thead>
<tr>
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<td>Keith K. Ahn</td>
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* Denotes students who hold a Newman Medal.
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**BACHELOR OF SCIENCE IN INTERNATIONAL BUSINESS**

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<td>Katheryn G. Purisima</td>
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52
BIOINFORMATICS
Justine A. Caswell
Union
Sinan Ramazanoglu
Blackwood

BUSINESS AND
INFORMATION SYSTEMS
Naimisha R. Chikyala
Randolph
Brian C. Jaggassar
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+ Soami Saran Dey
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Fords
* Hemal J. Patel
Jersey City
* Kanan B. Patel
Jersey City
* Ripa N. Patel
Cliffside Park
* Taral Patel
Iselin
Jitendra P. Rathod
Edison

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Robert A. Samuels
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Arjuna Sathianathan
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Marlboro
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Neptune
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Teaneck

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Chesterfield

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* Aruna Suri
Barrington

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(Degree conferred jointly by NJIT and Rutgers-Newark)

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Farmingdale

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Clark

Waqar Khokhar
Bayonne

* Kevin D. Kostyszyn
Denville

Andrew T. Lapham
Milford

Soumo Nandi
Jersey City

* Brian D. Piccoli
Lincoln Park

Gloria J. Silva
Newark

Tafari D. Walker
Kenilworth
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**HONORS DESIGNATION**

*Honors Scholar — graduate of the Albert Dorman Honors College*
### HONORS DESIGNATIONS

#### SUMMA CUM LAUDE

Mohamed Abdelatif  
Noel Alfonso  
Richard W. Armstrong  
Aniruddha Banerjee  
Casayndra H. Basarab  
Humayun M. Bayat  
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Gil P. Bento  
Megha P. Billimoria  
Malvina Blloshmii  
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Craig Ciccone  
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Kimberly Deli  
Soami Saran Dey  
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Andrea K. Rodriguez  
Alexander Salazar  
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Jigar Tailor  
Paul M. Thomas  
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Isha Toor  
Behroz Vaziri-Khorrami  
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Daree M. Mews  
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Mohammad S. Nawaz

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

- **summa cum laude** — with highest praise  
  grade point average 3.85 - 4.00
- **magna cum laude** — with great praise  
  grade point average 3.65 - 3.84
- **cum laude** — with praise  
  grade point average 3.40 - 3.64
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<td>Indermohan Singh</td>
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Julian Lopez

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<th>Richard Garber</th>
<th>Rhett Russo</th>
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<td>Ronald Rockland</td>
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READERS

| Janet Bodner     | John Egan         | Carol Johnson   |
| Charles Brooks   | Norbert Elliot    | Jerome Paris    |

GONFALON CARRIERS

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<tr>
<th>Newark College of Engineering</th>
<th>School of Management</th>
<th>Alumni</th>
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<td>Rachel E. Wallner</td>
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<td>College of Architecture and Design</td>
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<td>College of Science and Liberal Arts</td>
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<td>Richard Acosta</td>
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## AWARDS

### AWARDS EARNED FOR ACHIEVEMENT IN THE YEAR OF GRADUATION

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<tr>
<th>Award Name</th>
<th>Recipient</th>
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<td>Arab American Association of Engineers &amp; Architects</td>
<td>Ahmad Ahmad</td>
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<tr>
<td>Saul Barab Scholarship</td>
<td>Alexander Salazar</td>
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<tr>
<td>Alex C. Becker Memorial Scholarship</td>
<td>Megha Billimoria</td>
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<tr>
<td>Edward J. Bloustein Distinguished Scholar</td>
<td>Daisy Andrea Gallegos</td>
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<tr>
<td>Building Contractors Association of NJ</td>
<td>Ralph Austin</td>
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<td>Concrete Industry Foundation, Inc.</td>
<td>Tai T. Luu</td>
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<td>Dr. Allan R. Cullimore Scholarship</td>
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<td>Arthur Despies Scholarship</td>
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<td>EOP Mobil Engineers Scholarship</td>
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<td>ExxonMobil Corporation Merit Award</td>
<td>Kevin A. Patel</td>
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<td>ExxonMobil Scholarship for Female Chemistry</td>
<td>Teresa Higgins</td>
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<td>F. Gordon Foster Scholarship</td>
<td>Merna Samuel</td>
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<td>Estelle Fleisher Memorial Scholarship</td>
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<td>Solaia Henderson Scholarship</td>
<td>Christine Lin</td>
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<td>Peter Homack Scholarship</td>
<td>Krutanjali M. Shah</td>
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<td>Hopper Scholarship</td>
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<td>John B. Mandle Scholarship</td>
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<td>Madame Mau Outstanding Female Engineering Scholar</td>
<td>Julia Gayner</td>
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<td>Moles Scholarship</td>
<td>Rafał Wojcik</td>
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<td>Chemical, Biological &amp; Pharmaceutical Engineering Scholarship</td>
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New Jersey Institute of Technology
Faculty Scholarship
Megha Billimoria
Tania Forgacz
Christine Lin
Tai T. Luu
Stephanie M. Masotti
Ernesto Orellana
Adelyn Perez
Merna Samuel
Rafal Wojcik

New Jersey Institute of Technology
Presidential Scholarship
Megha Billimoria
Stephanie Masotti

North Jersey American Institute of
Chemical Engineers Award
Rachel Wallner

Otto H. York Department of Chemical,
Biological & Pharmaceutical Engineering
Rachel Wallner

Pelton Scholarship
Dominick J. Cirillo

J. Frank Perantoni Endowed Scholarship
Kwan Y. Lui

Prudential Computing Sciences Scholarship
Rich Acosta

Quasi Foundation Scholarship
Daisy Andrea Gallegos
Motelani Olarinre

E.H. Schmidt Scholarship
Aniruddha Banerjee

Tartaglia Memorial Scholarship
Ernesto Orellana

Turner Construction Company
Endowed Scholarship
Ahmad Ahmad
Tai T. Luu
Alexander Salazar

Robert W. & Martha Van Houten Scholarship
Justine Caswell

Wachovia Scholarship
Justine Caswell

Jim Wise Scholarship
Kwan Y. Lui
Adelyn Perez
IN RECOGNITION OF THE CLASS OF 2011

Proud parents, family and friends have recognized the accomplishments of individual members of the Class of 2011. Gifts, in their honor, have been made to the university to provide support for future generations of graduates.

In honor of Olatilewa O. Adetula
The Adetula Family
In honor of our son
Ndubisi Ahukanna
Mom and Dad

In honor of our son
Richard W. Armstrong
Mom and Dad

In honor of my husband
David Cannici
Janine Cannici

In honor of my daughter
Justine A. Caswell
Mom

In honor of our daughter
Katie Cerniglia
Paul and Jane Cerniglia

In honor of our son
Daniel Dela Cruz
Mr. and Mrs. Jaime Dela Cruz

In honor our daughter and sister
Kimberly Deli
Your Loving Family

In honor of our son
Durand D. Durga
The Durga Family

In honor of our son
Nicholas Giuliano
Mom and Dad

In honor of our son
Phillip Gonzalez
Luis and Rosemarie Gonzalez

In honor of my husband
Kirill A. Gordeyev
Mariya Kim

In honor of our son
Joseph J. Kardos, IV
Amelia and Joseph Kardos, III

In honor of our daughter
Chrysti Lynn Kellam
Linda and Lindell Dyke

In honor of our father
Louis Lambe
Gabrielle and Patrick Lambe

In honor of our son
John L. Micale
Mom, Kevin and Jocelyn

In honor of our son
Alexandre M. Monteiro
Fernando and Fernanda Monteiro

In honor of my son
John Muscatiello
Joseph Muscatiello

In honor of our son
Christopher D. Ojeda
Mom, Dad, Lauren, Grandparents and Family

In honor of my daughter
Adelyn Perez
Aurelio, Mirtha, Madely & Ariana Perez

In honor of my son
Chatchawin Poolthong
Suchavadee Poolthong

In honor of our son
Michael D. Ragsdale
Mom and Dad

In honor of our son
Pedro Rufo
Maria C. Rufo and Fernando Rufo

In honor of our son
João F. Seixal
The Seixal Family

In honor of our son
Daniel To
Philip and Eileen To

In honor our son
Boniface Emenike Ezenwa Udenta, Jr.
Parents, Siblings, members of Udenta family
IN RECOGNITION OF FAMILY AND FRIENDS
Members of the Class of 2011 have recognized the extraordinary people whose support has helped them throughout their academic career. Gifts in their honor have been made to the university to assist future students.

In honor of my grandfather
Fredrick R. Cook
Andrea Butler

In honor of my Mother and Father
Charles D’Angelo

In honor of my wife
Sonya Dezan
Yvins Dezan

In honor of my mother
Marie Dezan
Yvins Dezan

In honor of my parents
Donna and Jeff Garrigan
Kellie Garrigan

In honor of my mom
Linda Dyke
Chrsti L. Kellam

In honor of my mom
Lydia La Fortune
Farrah La Fortune

In honor of my uncle
Thomas Lambe
Louis Lambe

In honor of my Parents
Carlos Martin

In honor of my parents
Mr. and Mrs. Nandakumar
Anjali Nandakumar

In honor of my Parents and Family
Christopher D. Ojeda

In honor of my mom and dad
Fatima and Mario Oliveira
Scott D. Oliveira

In honor of my mom and dad
Enrique and Mirtha Perez
Adelyn Perez

In honor of Brian Groetsch
Will Ross

In honor of my parents
Maria F. Seixal and Joao J. Seixal
Joao F. Seixal

In honor of my parents
Manuel and Baerbel Stoecker
Arne Stoecker

In honor of my mom, dad and sisters
Mr. and Mrs. Boniface and Elizabeth,
Ngozi, Uzo and Chi
Boniface E. Udenta, Jr.

In honor of my mom
Liumei Zhao
Steven Weng

In memory of Professor Timothy Chang
Gene C. Wong

In honor of my husband
Lianzhi Wu
Hui Wu

In honor of my mom and dad
Yun Zhou and Zhanning Zhang
Hui Wu
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General Counsel
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 astounding 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 on July 1, 1884. The Newark Technical School opened on 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 robust Newark College of Engineering. 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 post-war period was one of enormous activity during which President Cullimore—like today’s post-Cold War university presidents—challenged the college to turn “war-time thinking into peace-time thinking.” In 1946, about 75 percent 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 and 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, two new schools were established at the university during the 1980s, the College of Science and Liberal Arts in 1982 and the School of Management in 1988. The Albert Dorman Honors College was established in 1994, and the College of Computing Sciences was created in 2001. In 2008, New Jersey School of Architecture was reconstituted as the College of Architecture and Design.
The past academic year witnessed the continuing expansion of NJIT’s Newark campus with the addition of two new buildings. Formerly known as Central High School, the Central King Building was acquired by the university in 2010 and is undergoing renovation to house a variety of educational functions, including pre-college programs. The newest campus building, the Naimoli Family Athletic and Recreational Facility, provides space for a variety of recreational sports, intramural competitions, and other school activities.

Today, with its four-pronged mission of education, research, service and economic development, the university plays a critical role in shaping New Jersey’s future. As a major public technological university, NJIT is an important conduit through which technology flows into society.

University researchers seek new knowledge to improve processes and products for industry. Through public and private partnerships and economic development efforts, the university helps to grow new business ventures that fuel the economy. NJIT’s research program is among the fastest-growing in the nation and ranks among the top ten technological universities in the nation for research expenditures.

The university’s extensive community outreach and economic development programs include the Enterprise Development Center (EDC), New Jersey’s first and largest small-business incubator—one of the top 25 in the nation—focusing on high-technology companies and minority-owned businesses.

NJIT has been designated a Center of Academic Excellence in Information Assurance Education by the National Security Agency.

As the state’s Homeland Security Technology Systems Center, NJIT serves as a consultant for technology evaluation and develops prototypes of integrated homeland security systems for testing, demonstration and training. The Center focuses on areas already identified by the federal government as vital to national security: intelligence and warning, border and transportation security, protecting critical infrastructure and key assets, emergency preparedness and response, and defending against catastrophic threats and domestic counter-terrorism.

NJIT’s educational programs prepare students to be leaders in the technology-dependent economy of the 21st century. Our educational programs grow out of a century-long tradition of academic excellence, and our student body is one of the most diverse in the United States. Ninety-eight percent of NJIT’s full-time faculty hold the terminal degree for their field. The university’s faculty:student ratio is 1:13.

NJIT is ranked in the nation’s top tier of national research universities, according to the U.S. News and World Report’s 2011 Annual Guide to America’s Best Colleges. U.S. News also named NJIT the nation’s seventh most diverse institution of higher education. The Bloomberg Businessweek survey of U.S. colleges ranked NJIT in the top 10 percent nationally for return on investment and classified the university as one of four higher education “best buys” in New Jersey. According to Forbes.com, NJIT ranks among the nation’s 25 “most connected” campuses. The Princeton Review named NJIT among the nation’s top 25 campuses for technology and as one of the nation’s most environmentally responsible campuses. In a study by Academic Analytics, NJIT was tenth among research universities specializing in science, technology, engineering and math based on faculty scholarly productivity. In addition, Diverse Issues in Higher Education ranks NJIT among the nation’s leading schools for graduating minority engineering and computer science students.

NJIT's goal for the next decade is to be recognized as a top-ranked public research university, as a national leader in the education of underrepresented groups for the technological professions, and as a catalyst for a healthy New Jersey economy.
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, also dates back to medieval times when it was used for an offensive weapon. Made wholly or partly of metal, and often spiked, it was used especially for breaking armor.

In time, it became a staff borne by, carried before, or placed near a magistrate or other dignitary as an ensign of his authority.

The university’s mace is carried in the academic procession, immediately preceding the undergraduate degree candidates. Presented as a class gift in the early 1950’s, it is thirty inches in length and is marked at the head by the Bronze Seal of 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 bears the official university Seal. It is worn about the neck by the president of the university on ceremonial occasions.

The medallion was presented to the university in 1968 by the Alumni Association.

**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.

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 the 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.

The 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.

The College of Computing Sciences 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.

College of Architecture & 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.
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.