

RUTGERS DEPARTMENT OF MECHANICAL
& AEROSPACE ENGINEERING



A social gathering that brings together students, faculty, alumni and professionals from top companies in mechanical and aerospace engineering.

Busch Student Center
November 8, 2018

INFORMATION
BOOKLET



Christopher J. Molloy, PhD, RPh
Interim Chancellor
Rutgers University – New Brunswick

In July 2018, Christopher J. Molloy was appointed the interim Chancellor for the Rutgers flagship campus reporting to University President Robert L. Barchi. Molloy joined Rutgers in 2007 as dean of the Ernest Mario School of Pharmacy. In 2011, he was appointed interim provost for biomedical and health sciences and successfully managed the complex integration of Rutgers and most of the former University of Medicine and Dentistry of New Jersey (UMDNJ) in 2013. Molloy served as interim chancellor of Rutgers Biomedical and Health Sciences and then Senior Vice President for the Office of Research and Economic Development until his appointment as interim Chancellor.

Molloy received his bachelor's degree in pharmacy from Rutgers and his doctoral degree from the joint Rutgers Graduate School of Biomedical Sciences at Robert Wood Johnson Medical School/Graduate School–New Brunswick. He was a post-doctoral fellow at the National Cancer Institute.

Prior to joining Rutgers, Molloy held senior research and management positions at Johnson & Johnson, 3-Dimensional Pharmaceuticals Inc., and Bristol-Myers Squibb Pharmaceutical Research Institute. He is also a licensed pharmacist in New Jersey. At Rutgers, he holds a faculty position as Distinguished Professor of Pharmacology and Toxicology and is a member of the Rutgers Cancer Institute of New Jersey, the American Association for Cancer Research, and the American Society for Biochemistry and Molecular Biology, and the American Pharmacists Association. He was elected as a Fellow of the American Association for the Advancement of Science in 2016.

Agenda (Busch Campus Center)

Industry Reception

Faculty Dining Hall

6:00 - 7:20 pm Dinner and Discussion

Welcoming Remarks

Christopher J. Molloy, PhD, RPh
New Brunswick Chancellor
Rutgers University

Meet and Greet with Students

Faculty Dining Hall

7:30 - 9:00 pm Networking with Students



EFE Laboratories, Inc.

Kip Anthony
President



Kip Anthony is President of EFE Laboratories, an established, solutions-based contract manufacturer located in Horsham, PA. Kip's professional experience spans a wide range of industries, including heavy manufacturing/aerospace, food processing equipment, automotive, and aerospace. Among these, he has spent time with Schrader Bridgeport International, BE Aerospace, Cooper Industries, O.S. Kelly Co. (now a subsidiary of Steinway Musical Instruments), and others. In addition to a B.S. in mechanical engineering, Kip holds an MBA (with a concentration in finance) from Ohio State and Ashland universities. With more than a decade of service to EFE—and in his current role as President—Kip is the ultimate facilitator of both customer satisfaction and strategic direction for the company.

COMPANY AT A GLANCE

INDUSTRY	Contract Manufacturer
HEADQUARTERS	Horsham, PA
WEBSITE	www.efelabs.com
JOBS	www.efelabs.com/careers/



BAE Systems

Jeffrey Appel
Navigation and Communications Director and Program Director, NTCDL



For BAE Systems in Wayne, NJ, Jeff is the Navigation and Communications Director and Program Director for the Network Tactical Common Data Link (NTCDL) program. He manages a group of Program Managers that lead projects for our Doppler Navigation, MultiMode Receiver Precision Landing Receiver, Low Probability of Intercept Altimeter and Common Data Link products. He graduated from Hofstra University with a Master's in Business Administration and Virginia Tech with a Bachelor's in Electrical Engineering.

COMPANY AT A GLANCE

INDUSTRY	Aerospace, Defense
HEADQUARTERS	Farnborough, United Kingdom
WEBSITE	www.baesystems.com
JOBS	jobs.baesystems.com/global/en

INDUSTRY
REPRESENTATIVE

Veeco Instruments



Eric Armour

Senior Director of Advanced Process Technology

Eric Armour received his B.S. from University of Pennsylvania in 1987, his M.S. from University of Delaware in 1989, and Ph.D. from University of New Mexico in 1994, all in electrical engineering. He joined Emcore Corporation in 1994, where he collaborated with scientists from Spectrolab and the National Renewable Energy Lab (NREL) to develop the first commercial (large-area production) tandem and triple junction As/P extraterrestrial solar cells grown on Ge using metal-organic vapor phase epitaxy (MOVPE). Dr. Armour then became the Director of Research for the newly established Emcore Electronic Materials (now IQE-RF). Eric was appointed the Director of Materials and Process Development in 2002. He is currently the Senior Director of Advanced Process Technology, where focuses on next-generation GaN reactor platforms. Dr. Armour has contributed to over 100-refereed publications and has 8 US patents.



COMPANY AT A GLANCE

Process Equipment
Plainview, NY
www.veeco.com
www.veeco.com/company/careers

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

BAE Systems



Rick Buongiovanni

New Jersey Engineering Site Director and C4ISR Chief of Staff

Rick is the NJ Engineering Director leading all engineering effort in New Jersey. He is responsible for the overall performance of all programs managed out of NJ, the hiring of all Engineering Managers / Leaders and managing the engineering workforce. He is also the Engineering Chief of Staff for the C4ISR business area. The C4ISR organization has facilities all over the United States and employees over 1400 engineers. Rick has been leading communications systems product development throughout his 30 year career at BAE Systems. He holds an MS degree from Stevens Institute and a BS from Rutgers University in Electrical Engineering.



COMPANY AT A GLANCE

Aerospace, Defense
Farnborough, United Kingdom
www.baesystems.com
jobs.baesystems.com/global/en

INDUSTRY
HEADQUARTERS
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JOBS

INDUSTRY
REPRESENTATIVE



EFE Laboratories

Frank Campanale

Principal / General Manager



Frank Campanale has 25+ years of Management experience as a Board Member, Entrepreneur, and Business Unit Executive for both small and large multi-national corporations. He is currently the General Manager, and a Principal at EFE Laboratories, an established, solutions-based contract manufacturer located in Horsham, PA.

COMPANY AT A GLANCE

INDUSTRY	Contract Manufacturer
HEADQUARTERS	Horsham, PA
WEBSITE	www.efelabs.com
JOBS	www.efelabs.com/careers/



BAE Systems

Frank Conway

Senior Principal Mechanical Engineer

COMPANY AT A GLANCE

INDUSTRY	Aerospace, Defense
HEADQUARTERS	Farnborough, United Kingdom
WEBSITE	www.baesystems.com
JOBS	jobs.baesystems.com/global/en

INDUSTRY
REPRESENTATIVE

Lockheed Martin



Thomas Daniels



COMPANY AT A GLANCE

Aerospace, Defense	INDUSTRY
Bethesda, MD	HEADQUARTERS
www.lockheedmartin.com	WEBSITE
www.lockheedmartinjobs.com	JOBS

Marotta



Robert DiSimone



COMPANY AT A GLANCE

Precision Control Components and Systems	INDUSTRY
Montville, NJ	HEADQUARTERS
www.marotta.com	WEBSITE
www.marotta.com/talent	JOBS

INDUSTRY
REPRESENTATIVE

Dimitri Dovas
Attorney



Dovas Law was founded in 2006 as a Professional Corporation with a focus on intellectual property matters. We work to meet the needs of domestic and foreign clients, including corporations, law firms and individuals, who seek to protect ideas and innovation in varying fields and technologies. A large portion of our practice involves counseling clients regarding domestic and international intellectual property rights, matters of infringement, and due diligence in M&A transactions, as well as negotiating and drafting IP-related contracts, service agreements, licenses, and settlement agreements. We provide full service in trademark and copyright matters including prosecution of new applications and defending client rights. Dimitri Dovas received his Juris Doctor from Rutgers Camden School of Law and his Bachelor of Science, with honors, from Rutgers College of Engineering.

COMPANY AT A GLANCE

INDUSTRY Patent & IP Law
HEADQUARTERS Philadelphia, PA
WEBSITE www.dovaslaw.com
JOBS

Jaime Ennis
Principal R&D Engineer



Jaime previously worked for the U.S. Army supporting Explosives/Demolitions manufacturing and development at Picatinny Arsenal. In 2012, he entered the Medical Device industry at the Micro Corporation and is now is a member of the Ethicon - Biosurgery R&D team. In his current role, he provides leadership from the front-end prototype generation stage, through end-to-end pilot-scale and partners with Supply Chain and Operations for the commercial scale up of lifesaving hemostasis products.

COMPANY AT A GLANCE

INDUSTRY Surgical Systems and Instruments
HEADQUARTERS Somerville, NJ and Cincinnati, OH
WEBSITE www.ethicon.com
JOBS careers.jnj.com

Zurich



Eric Evdokimoff

Risk Engineering Consultant

Eric Evdokimoff is a Risk Engineering Regional Manager who leads the East Team 4 group supporting the Mid-Atlantic territory. He directs the activities for field engineers in his region and is responsible for work assignments, quality compliance, team building and personnel issues. Eric is also a risk engineering liaison between property engineering and the Philadelphia office underwriting team. He coordinates activities such as the pre-account renewal strategy meetings, prospect account reviews and general questions.



COMPANY AT A GLANCE

Insurance and Risk Management
Schaumburg, IL
www.zurichna.com/en/risk
www.zurichna.com/en/careers

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

Roffman Miller Associates Inc.



Mark Frombach

Chief Investment Officer

Mark Frombach is a partner and Chief Investment Officer at Roffman Miller, a Philadelphia-based wealth management firm. Following graduation (Rutgers BSEE, 1988) Mark spent 11 years in factory automation and process controls. The accumulated experience of working at various customer sites throughout the US and globally led him to pursue his next degree (Rutgers MBA, Finance, 1996) and career. Today, Mark leads the investment committee for Roffman Miller and is responsible for over \$1 billion of client assets.



COMPANY AT A GLANCE

Wealth Management
Philadelphia, PA
www.roffmanmiller.com

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

**INDUSTRY
REPRESENTATIVE**



Marotta

Brian Ippolito



COMPANY AT A GLANCE

INDUSTRY	Precision Control Components and Systems
HEADQUARTERS	Montville, NJ
WEBSITE	www.marotta.com
JOBS	www.marotta.com/talent



Lockheed Martin

Ken Johnson

Retired Vice President & General Manager



Ken is a retired Vice President of the Lockheed Martin Corporation where he served as the General manager of the Communications & Power Center located in Newtown, PA, and as the General manager of the East Windsor, NJ spacecraft design & manufacturing facility. Ken worked in a variety of senior positions in aerospace engineering and technical management in a career spanning 35 years in the development of space-systems, and the management of large, multi-disciplined organizations. He is a member of the Rutgers Board of Trustees, and is Chair of the Mechanical & Aerospace Engineering Advisory Board. Mr. Johnson received his BS in Mechanical Engineering from Rutgers University in 1966 and his MS in Engineering Management from the New Jersey Institute of Technology in 1971.

COMPANY AT A GLANCE

INDUSTRY	Aerospace, Defense
HEADQUARTERS	Bethesda, MD
WEBSITE	www.lockheedmartin.com
JOBS	www.lockheedmartinjobs.com

INDUSTRY REPRESENTATIVE

JAKTOOL



Jeff Kinsberg
Chief Executive Officer

Jeff is the Chief Executive Officer of JAKTOOL, a high-end engineering, manufacturing and prototyping company headquartered in Cranbury, NJ. Mr. Kinsberg conceived and founded JAKTOOL in 1994, which has achieved a history of successful, sustainable growth through continuous improvement and client focus and a multi-disciplinary team known for problem solving, engineering, and prototype development with unmatched quality and customer satisfaction. Previously, Jeff led the development of material handling systems for structures in the nuclear, oil, and gas industries. While at Rutgers, Jeff was employed as a student designer and machinist for the Industrial Engineering Department. Jeff participated in the Society of Automotive Engineers (SAE/RFR). Jeff continues to mentor these students as well as provide internship opportunities through his business. He holds a B.S. in Mechanical Engineering from Rutgers University.



COMPANY AT A GLANCE

Engineering, R&D, and Prototyping
Cranbury, NJ
www.jaktool.com

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

Merck



John Laucius
Engineering Director

John Laucius has served as a member of the mechanical and aerospace engineering advisory board executive committee since 2007. He received his BSME from Rutgers in 1981 and his professional engineer license. Mr. Laucius has experience in pumping systems and hydraulics and has served as project and design director on over \$700,000,000 of projects in the areas of pharmaceutical labs, central utilities, energy/biotech manufacturing facilities overseeing design and construction.



COMPANY AT A GLANCE

Pharmaceuticals
Kenilworth, NJ
www.merck.com
www.merck.com/careers/

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

INDUSTRY
REPRESENTATIVE



GEOshare, a Lockheed Martin Company

Florette Laurizio
Vice President, Sales & Marketing



Florette Laurizio is the Vice President, Sales and Marketing of GEOshare, a wholly owned satellite company of Lockheed Martin, where she manages GEOshare's customer relationships, sales and marketing processes, and operations. Florette has 35 years of commercial satellite communications industry experience across satellite and service businesses. Previously, Florette held various senior management positions in Business Development, Marketing, Sales, and Capture Management for GE Astro Space, Martin Marietta Astro Space, Lockheed Martin Telecommunications, and Lockheed Martin Commercial Space, and various management positions in Strategic Planning, Business Development, Marketing, Sales, Systems Planning, Contracts Management, and Systems Engineering for GE American Communications, and RCA American Communications. Florette has an MBA and a BS in Electrical Engineering from Rutgers University.

COMPANY AT A GLANCE

INDUSTRY	Satellite Technology
HEADQUARTERS	Tysons, VA
WEBSITE	www.geoshare.com
JOBS	www.lockheedmartinjobs.com



Bristol-Myers Squibb

Clare Lumkong
Manager, Sustainability, Global ESHSS



Clare Lumkong is an experienced leader in building and leading sustainability programs. She has been with Bristol-Myers Squibb (BMS) for over 5 years and is currently the Manager of Sustainability for Global Environmental, Health, Safety, and Sustainability Department. Before joining BMS, Clare worked with Lockheed Martin Space Systems Company (LMCSS) for 17 years where she held a number of roles of increasing responsibility. As the Go Green Program Manager, Clare was responsible for leading cross functional teams throughout the Space Systems Company to integrate Go Green strategies into operations and drive progress toward more sustainable operations. Previously with Lockheed Martin she was the regional Environment, Health and Safety manager for the Delaware Valley Operations supporting manufacturing, testing, and launch activities. Clare holds a BS International Environmental Studies, Rutgers University.

COMPANY AT A GLANCE

INDUSTRY	Pharmaceuticals
HEADQUARTERS	New York City, NY
WEBSITE	www.bms.com
JOBS	www.bms.com/job-seekers.html

INDUSTRY REPRESENTATIVE

BAE Systems

BAE SYSTEMS

Joshua Mindler

Advanced Technology Project Technical Lead

Josh is the Advanced Technology engineering lead for BAE Systems, a large US Department of Defense technology development company. Josh has been with BAE Systems for 10 years and is a graduate of the Engineering Leadership Development Program (ELDP). Josh is the engineering project lead for various advanced communication programs for military applications. He is a graduate of Syracuse University with a B.S. in Aerospace Engineering and Mathematics, he also holds a Masters in Engineering Management from Stevens.



COMPANY AT A GLANCE

Aerospace, Defense	INDUSTRY
Farnborough, United Kingdom	HEADQUARTERS
www.baesystems.com	WEBSITE
jobs.baesystems.com/global/en	JOBS

L'ORÉAL

L'ORÉAL

Kevin Miranda

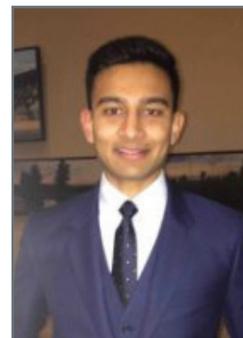
Manager, Master Production Scheduling

"After successfully joining the workforce, after May 2012, I am determined to keep challenging myself as my experience and skills mature.

Specialties:

- Art, Design - branding and identity.
- Expert in Fragrance formulation and manufacturing.
- Expert in toothpaste formulation and stability analysis.
- Experienced production planner - Supply Chain.

Kevin Earned his B.S. in Chemical Engineering at Rutgers School of Engineering in 2012."



COMPANY AT A GLANCE

Cosmetics	INDUSTRY
Clichy, France	HEADQUARTERS
www.loreal.com	WEBSITE
career.loreal.com	JOBS

INDUSTRY REPRESENTATIVE



O'Brien & Gere

Tom Nowlan
Senior Vice President



COMPANY AT A GLANCE

INDUSTRY	Engineering, Construction, Operational Services
HEADQUARTERS	Syracuse, NY
WEBSITE	www.obg.com
JOBS	www.obg.com/careers



Naval Surface Warfare Center
Carderock Division

Alexander G. Perotti



COMPANY AT A GLANCE

INDUSTRY	Defense
HEADQUARTERS	Potomac, Maryland
WEBSITE	www.navsea.navy.mil
JOBS	www.usajobs.gov

INDUSTRY
REPRESENTATIVE

JAKTOOL LLC



Cristy Richards
Vice President

Cristy Richards is the President and COO of JAKTOOL, leading the quality and procurement departments. In the four years that Cristy has been with JAKTOOL, she has matured the quality system to earn ISO 9001 certification and has implemented ERP to streamline workflow and improve efficiency. Before joining JAKTOOL, Cristy worked for both academic and large corporations supporting biologics and medical devices. Team oriented and with the desire to mentor, Cristy has led multidisciplinary teams as the Product Development Engineering Manager for Osteotech, Inc. and as Principal Sourcing Engineer for Medtronic Spine and Biologics, where she was responsible for acquisitions of 1M+. Cristy holds a B.S. and M.S. in Mechanical Engineering, both from Rutgers and M.B.A from Monmouth University. She is credited with numerous publications and patents in the medical device industry.



COMPANY AT A GLANCE

Engineering, R&D, and Prototyping
Cranbury, NJ
www.jaktool.com

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

Naval Surface Warfare Center
Carderock Division



Paul Shang
Signatures Department, Head

Paul Shang's 30-year career in the service of the U.S. Navy is distinguished by his technical achievements as a scientist, engineer, and manager. His career-long achievements as a technologist and manager are best demonstrated by the superior stealth performance of today's U.S. naval fleet. Currently, he is the Head of the Ship Signatures Department, Naval Surface Warfare Center Carderock Division.

Paul Shang received his bachelor's degree and Ph.D. from Rutgers University, both in mechanical engineering. He is a Fellow of the American Society of Mechanical Engineers and a recipient of the Bronze Medal from the National Defense Industrial Association.



COMPANY AT A GLANCE

Defense
Potomac, Maryland
www.navsea.navy.mil
www.usajobs.gov

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

INDUSTRY
REPRESENTATIVE

BAE SYSTEMS

BAE Systems

Brittany Geyer Smith



Brittany Geyer Smith is a mechanical engineer at BAE Systems, Inc. In her current role she supports the electronic warfare products. As a mechanical engineer she designs housings and works closely with other disciplines to meet customer requirements. Brittany holds a Bachelors of Engineering in Mechanical Engineering from Stevens Institute of Technology (2015). She is also currently pursuing a Masters of Engineering in Engineering Management from Stevens as well.

COMPANY AT A GLANCE

INDUSTRY	Aerospace, Defense
HEADQUARTERS	Farnborough, United Kingdom
WEBSITE	www.baesystems.com
JOBS	jobs.baesystems.com/global/en



Lockheed Martin

Ryan Whitson

COMPANY AT A GLANCE

INDUSTRY	Aerospace, Defense
HEADQUARTERS	Bethesda, MD
WEBSITE	www.lockheedmartin.com
JOBS	www.lockheedmartinjobs.com

INDUSTRY
REPRESENTATIVE

PSEG



Sergey Wortman-Vayn

Design Engineer, Gas Asset Strategy

Sergey has 19 year of engineering experience in energy sector which includes design of natural gas infrastructure, power plants and HVAC systems. Currently Sergey is responsible for managing and execution of the PSEG's federally mandated Distribution Integrity Management Program as well as coordination of large gas project work with interstate pipeline companies. Sergey is a member of North American Society of Trenchless Technology (NASTT) and is active with the local Rutgers University student chapter. Sergey is a member of Rutgers University Mechanical & Aerospace Engineering Industry Advisory Board and participates in the student mentoring program. He is also on board of governors for Rutgers Engineering Society. Sergey holds a B.S. in Mechanical Engineering from Rutgers University and M.E. in Mechanical Engineering from Lehigh University.



COMPANY AT A GLANCE

Utilities	INDUSTRY
Newark, NJ	HEADQUARTERS
www.pseg.com	WEBSITE
jobs.pseg.com	JOBS

**INDUSTRY
REPRESENTATIVE**

Xiaoli Bai
Assistant Professor



Xiaoli Bai has been an Assistant Professor in the department of Mechanical and Aerospace Engineering at Rutgers since July 2014. She obtained her PhD degree of Aerospace Engineering in 2010 from Texas A&M University. Prior to joining Rutgers, she was a research scientist at Optimal Synthesis Inc. in Los Altos, California, working with NASA Langley and NASA Ames on advanced research and development projects in the area of air traffic management systems. One consequence of her dissertation is a set of methods which significantly enhances and accelerates the fundamental processes underlying the creation and maintenance of space debris catalogs. Her research theme is Advanced Computational Methods for Dynamics and Control of Aerospace Systems.

UNIVERSITY AT A GLANCE

LOCATION	Piscataway, NJ
UNIVERSITY WEBSITE	www.rutgers.edu
DEPARTMENT WEBSITE	mae.rutgers.edu

Onur Bilgen
Assistant Professor



UNIVERSITY AT A GLANCE

LOCATION	Piscataway, NJ
UNIVERSITY WEBSITE	www.rutgers.edu
DEPARTMENT WEBSITE	mae.rutgers.edu

Rutgers University
Mechanical and Aerospace Engineering



Alberto Cuitino
Professor, Chair

Dr. Alberto Cuitino is a Professor in the Mechanical and Aerospace Engineering at Rutgers University and currently serving as Department Chair. He has served as a Site Leader of the NSF Engineering Research Center for Structured Organic Particulate Systems. He received a Civil Engineering Diploma from the University of Buenos Aires, Argentina, in 1986, and an MS degree in Applied Mathematics, and a Ph.D. degree in Solid Mechanics from Brown University in 1992 and 1994, respectively. His research interests include advanced manufacturing of pharmaceuticals, material modeling, computer simulations and granular materials.



UNIVERSITY AT A GLANCE

Piscataway, NJ LOCATION
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mae.rutgers.edu DEPARTMENT WEBSITE

Rutgers University
Mechanical and Aerospace Engineering



Edward DeMauro
Assistant Professor



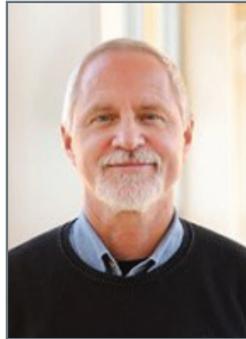
UNIVERSITY AT A GLANCE

Piscataway, NJ LOCATION
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mae.rutgers.edu DEPARTMENT WEBSITE

ACADEMIA AND
ADMINISTRATION

Doyle Knight

Distinguished Professor of Mechanical and Aerospace Engineering



Doyle Knight received his PhD in Aeronautics from the California Institute of Technology in 1974. Following two years service in the United States Air Force as an Aeronautical Engineer, and one year Postdoctoral Fellowship in Applied Mathematics at the California Institute of Technology, he joined Rutgers MAE. His research in gas dynamics includes shock wave boundary layer interaction, incipient separation on pitching airfoils, turbulence model development, high speed inlet unstart and effects of unsteady energy deposition in supersonic flows. His research activity in design optimization focuses on the application of computational fluid dynamics to the automated optimal design of high speed air vehicles. He is the author of the book Elements of Numerical Methods for Compressible Flows published by Cambridge University Press. He is the author/co-author of 7 book chapters.

UNIVERSITY AT A GLANCE

LOCATION	Piscataway, NJ
UNIVERSITY WEBSITE	www.rutgers.edu
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Siddika Pasi

Associate Director



UNIVERSITY AT A GLANCE

LOCATION	Piscataway, NJ
UNIVERSITY WEBSITE	www.rutgers.edu
DEPARTMENT WEBSITE	caes.rutgers.edu

Assimina Pelegri

Professor, Undergraduate Program Director

Dr. Assimina Pelegri is a Professor and the Undergraduate Program Director of Mechanical and Aerospace Engineering at Rutgers, The State University of New Jersey. Her research interests include composite materials design, properties characterization, novel methodologies in materials modeling, and application of anisotropic material principles in interfacial mechanics. She has developed multi scale material models for characterization of aerospace fibrous composites as well as models for interfacial damage evolution in such materials. Her models have also found applications in biological fibrous materials such as brain neurons and have launched research activities in the fields of traumatic brain injury and degenerative diseases.



UNIVERSITY AT A GLANCE

Piscataway, NJ	LOCATION
www.rutgers.edu	UNIVERSITY WEBSITE
mae.rutgers.edu	DEPARTMENT WEBSITE

Jonathan P Singer

Assistant Professor

Dr. Singer's lab (hmdl.rutgers.edu) focuses on applying scalable micro/nanomanufacturing processes to incorporate the extraordinary properties of nanostructures into complex geometries. This is accomplished through combinations of "bottom-up" and "top-down" lithographic techniques. The critical feature of these processes is that they shift the burden of micro/nanoscale resolution from a costly or slow technique to a more scalable method bottom-up method. In this way, barriers to integration with rapid production methods, such as roll-to-roll or spray coating are removed, while retaining a sufficient degree of control for targeted applications in, for example, propulsion, sensors, and medical implants. His research was most recently recognized through a 2018 3M Non-Tenured Faculty Award.



UNIVERSITY AT A GLANCE

Piscataway, NJ	LOCATION
www.rutgers.edu	UNIVERSITY WEBSITE
mae.rutgers.edu	DEPARTMENT WEBSITE

Stephen Tse

Director of Outreach; Professor and Mary W. Raisler Distinguished Teaching Chair



UNIVERSITY AT A GLANCE

LOCATION	Piscataway, NJ
UNIVERSITY WEBSITE	www.rutgers.edu
DEPARTMENT WEBSITE	mae.rutgers.edu

Aakash Desai

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Brandon Manalo

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Brandon Nguyen

Mechanical Engineering PROGRAM
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