ABOUT THE DEPARTMENT OF ELECTRICAL, COMPUTER
AND SYSTEMS ENGINEERING

STUDENTS
498 Undergraduates
11 Masters
117 Doctoral

Select US News & World Report Rankings:
14th Undergraduate Electrical Engineering
17th Graduate Electrical Engineering

DEGREES OFFERED
Computer and Systems Engineering
(B.S., M.S., M.Eng., Ph.D.)
Electrical Engineering
(B.S., M.S., M.Eng., Ph.D.)

DEGREES AWARDED IN 2011
17 Doctoral
33 Masters
142 Bachelors

HIGHLIGHTS (FALL 2011)
95% of the doctoral students receive financial aid in the form of fellowships, teaching assistantships or research assistantships
ECSE Alumni have been awarded three National Medals of Technology from President Obama in the last two years
119 Archival Journal Papers in 2011
FY11 Research Expenditures in excess of $12M

RESEARCH AREAS
Communications, Information, and Signals and Systems
Computer Engineering and Networking
Control, Robotics and Automation, and Synthetic Biology
Electrophysical Devices and Systems
Energy Sources and Systems
Illumination Science and Systems
Image Sciences

AFFILIATED RESEARCH CENTERS
NSF Smart Lighting Engineering Research Center | smartlighting.rpi.edu
NSF Engineering Research Center for Ultra-Wide-Area Resilient Electric Energy Transmission (CURENT)
NSF Engineering Research Center for Sub-Surface Sensing and Imaging Systems (CenSSIS)
Center for Future Energy Systems | rpi.edu/cfes
Center for Automation Technologies and Systems | cats.rpi.edu

SCHOOL OF ENGINEERING
QUICK FACTS
- Founded in 1824, one of the oldest engineering schools in the country
- Located in Troy, NY, 150 miles north of New York City, 175 miles west of Boston, at the gateway to the Adirondack State Park
- 700 graduate students
- 7 academic departments
- 3,000 undergraduate students
- 30% of first-year students were female (Fall 2011)
- 15% of first-year students were underrepresented minorities (Fall 2012)
- 70% of incoming first-year engineering students were in the top 10% of their graduating class
- 30 degree programs (12 UG and 18 G)
- 55,000 living alumni

RESEARCH HIGHLIGHTS
- 12 Research Centers
- 2 NSF Engineering Research Centers (ERC’s)

SCHOOL FACULTY
- 165 faculty members
- 21 endowed chairs or professorships
- 11 National Science Foundation (NSF) Faculty Early Career Development (CAREER) Award winners in the last three years (2010-2012)
- 37 Early Career Awards (e.g., NSF CAREER and other Young Investigator Awards) among current faculty

CONTACT US
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ECSE Faculty includes: 14 IEEE Fellows; 7 NSF CAREER Award winners; 1 Naval Young Investigator Award winner; 2 Jefferson Science Fellows; 6 Fellows of multiple learned societies.

- Al-Hussein Abouzeid, Associate Professor
- Ishwara Bhat, Professor
- Kim Boyer, Professor and Department Head, Electrical, Computer, & Systems Engineering
- Jeffrey Braunstein, Lecturer
- Joe Chow, Professor
- Tat-Sing (Paul) Chow, Professor
- Kenneth Connor, Professor
- Partha Dutta, Professor
- W. Randolph Franklin, Professor
- Lester Gerhardt, Professor
- Mona Hella, Associate Professor
- Zhaoran (Rena) Huang, Associate Professor
- Qiang Ji, Professor
- Anak A. Julius, Assistant Professor
- Junichi Kanai, Professor of Practice
- Koushik Kar, Associate Professor
- Robert Karlicek, Professor
- Russell Kraft, Lecturer
- Yannick Le Coz, Associate Professor
- Jian-Qiang (James) Lu, Professor
- John McDonald, Professor
- Leila Parsa, Associate Professor
- Richard Radke, Associate Professor
- Sheppard Salon, Professor
- Arthur Sanderson, Professor
- Gary Saulnier, Professor and Associate Head for Undergraduate Studies
- Shayla Sawyer, Assistant Professor
- Paul Schoch, Associate Professor
- E. Fred Schubert, Wellfleet Senior Constellation Professor, Future Chips
- Jerry Selvaggi, Research Assistant Professor
- Michael Shur, Patricia W. and C. Sheldon Roberts ’48 Chaired Professor in Solid State Electronics
- Biplab Sikdar, Associate Professor
- Jian Sun, Professor
- Kenneth Vastola, Professor and Associate Head for Graduate Studies
- John (Ting-Yung) Wen, Professor
- John Woods, Professor
- Michael Wozny, Professor and Associate Head for Operations and Curricular Affairs
- Birsen Yazici, Professor
- Tong Zhang, Associate Professor