DEPARTMENT FACULTY AND RESEARCH INTERESTS

Akyurtlu, Alkim, Ph.D., Penn State Computational electromagnetics, metamaterials and antennas

Armiento, Craig. Ph.D., MIT

Fiber optics, semiconductor and devices

Chandra, Kavitha, Eng.D, University of Massachusetts Lowell Acoustics, Communications networks and performance models

Chigan, Tricia, Ph.D., SUNY at Stony Brook Communication networks and network security

Dutta, Joyita, Ph.D., University of Southern California Biomedical image reconstruction and analysis

Hu, Tingshu, Ph.D. University of Virginia Dynamic systems and control

Ibe. Oliver. Sc.D., MIT

Mobile and converged communications

Lu, Xuejun, Ph.D., University of Texas Austin Optoelectronics, nanophotonics, and fiber optics

Luo, Yan, Ph.D., University of California Riverside Computer architecture, network systems

Mah'd, Mufeed, Ph.D., University of Western Ontario Digital signal and medical image processing

Margala, Martin, Ph.D., University of Alberta Digital and mixed-signal VLSI design and VLSI testing

Megherbi, Dalila, Ph.D., Brown University Digital Image Processing, Computer Vision, Machine Learning & Computational Intelligence, Networking, Distributed High Performance Computing, and Embedded Systems

Mil'Shtein, Samson, Ph.D., University of Jerusalem Semiconductor electronics and technology

Pakdelian, Siavash, Ph.D., Texas A&M University Electric machines and drives, Power electronics

Prasad, Kanti, Ph.D., University of South Carolina Reliability analysis and enhancement for GaAs and silicon devices

Rao, Tenneti C., Ph.D., Indian Institute of Science Electromagnetics

Son, Seung Woo, Ph.D., Penn State High performance computing

Therrien, Joel, Ph.D., University of Illinois, Urbana-Champaign Nanoelectronic devices

Thompson, Charles, Ph.D., MIT Acoustics, systems and field theory

Vokkarane, Vinod, Ph.D., University of Texas, Dallas Communication networks and reliability

Wang, Xingwei, Ph.D., Virginia Tech

Optical biosensing and biomedical devices, sensors Weitzen, Jay, Ph.D., University of Wisconsin, Madison

Wireless communication

Wickramarathne, Thanuka, Ph.D., University of Miami Signal Processing, Multi-Sensor Data Fusion

Yu, Hengyong, Ph.D., Xi'an Jiaotong University Medical Image Processing

Zhang, Hualiang, Ph.D., HKUST

Applied Electromagnetics, High-Frequency Circuits and Systems

DEGREES AND CERTIFICATES

Computer Engineering Programs

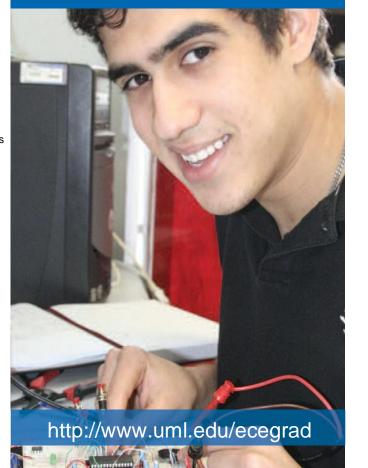
Master of Science (M.S.) Doctor of Philosophy (Ph.D.)

Electrical Engineering Programs

Master of Science (M.S.) Doctor of Philosophy (Ph.D.)

Graduate Certificate Programs

Communications Engineering Field Programmable Gate Array Microwave and Wireless Engineering Stochastic Systems VLSI and microelectronics Biomedical Engineering **Energy Conversion** Integrated Engineering Systems Nanotechnology Photonics and Optoelectronics **Telecommunications**



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The Francis College of Engineering



Electrical & Computer Engineering

Graduate Programs



http://www.uml.edu/ecegrad

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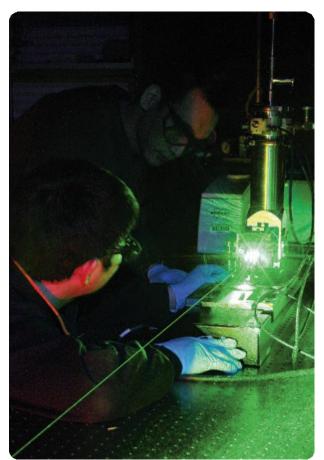
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ELECTRICAL & COMPUTER ENGINEERING GRADUATE PROGRAMS

WHO WE ARE

The Department of Electrical and Computer Engineering (ECE) at the University of Massachusetts Lowell offers graduate programs leading to Master of Science (M.S.), and Doctor of Philosophy (Ph.D.) degrees. Our research is funded by the National Science Foundation, the Air Force Office of Scientific Research, the Defense Advanced Research Projects Agency, the Office of Naval Research and various companies, including Raytheon and Intel.



FIELDS OF SPECIALIZATION

Our experienced faculty has active research programs in a diverse number of specialization areas including:

- Additive Manufacturing
- Alternative Energy Sources
- Communications
- Computer Architecture
- Control Systems
- Digital Signal Processing
- Distributed Networking
- **Embedded Systems**
- High Performance Computing
- Metamaterials
- Nanotechnology
- Optoelectronic Devices
- Power distribution
- Printed Electronics

RESEARCH CENTERS AND LABORATORIES

Research Centers

- Advanced Electronics Technology Center
- Center for Advanced Computation and Telecommunications
- Center for Machine/Human Intelligence, Networking and Distributed Systems
- Center for Photonics, Electromagnetics and Nanoelectronics
- Raytheon-UML-Research Institute

Research Labs

Advanced Digital Systems Design and Microprocessors Laboratory, Computer Architecture Laboratory, Distributed Semiconductor Industrial Processing Laboratory, Microwave



Laboratory, Networking, Artificial and Machine Intelligence and Computer Vision Laboratory, Renewable Energy Laboratory, Computer Architecture and Network Systems Laboratory, VLSI Design Laboratory

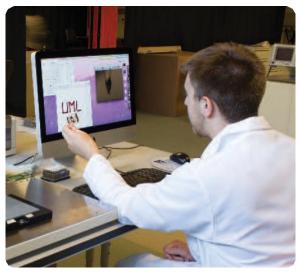


ADMISSION REQUIREMENTS

All applicants for either the M.S. or Ph.D. programs in DEADLINES electrical engineering must take the GRE general examination. Official transcripts and three letters of recommendation must be submitted along with the graduate from a U.S. institution are required to take the TOEFL or IELTS examination. After the minimum requirements are met, the EE Graduate Committee evaluates each case on an individual basis.

FINANCIAL SUPPORT

A number of ECE Department Teaching Assistant (TA) positions are available for doctoral students. Research Graduate Program Coordinators: Assistant (RA) positions may be awarded to incoming students who have outstanding credentials. The students Master of Science: are also encouraged to seek out faculty members whose research fields closely match the area in which they would like to pursue their degree.



Although there are no deadlines to apply, in order to be considered for a department Teaching Assistantship, applications for the Fall semester must be completed by application. Foreign students without a bachelor's degree February 15 and October 1 for the Spring semester of the following year.

CONTACTS

For more information on the Electrical and Computer Engineering Graduate Programs, please visit:

http://www.uml.edu/ecegrad

Prof. Xuejun Lu

E-mail: xuejun_lu@uml.edu Telephone: 978-934-3359

Doctoral:

Prof. Alkim Akyurtlu

E-mail: ECE_Doctoral_Coordinator@uml.edu

Telephone: 978-934-3336