

# DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

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**Head:** M. Begovic

**Graduate Advisor:** J. Hu

The Department of Electrical and Computer Engineering offers programs for graduate study leading to the research-oriented Master of Science and Doctor of Philosophy degrees and to the professional Master of Engineering degree in Electrical and Computer Engineering. Courses in the department may also be applied to the interdisciplinary Doctor of Engineering degree. The MS and PhD programs provide specialization in-depth and include a research (thesis or dissertation) requirement. The MEng and DEng programs are designed to provide the depth and breadth necessary for the practice of engineering at advanced levels.

Current areas of study include analog and mixed signal, biomedical imaging and genomic signal processing, computer engineering, electromagnetic and microwaves, electric power and power electronics, solid state electronics, photonics and nano-engineering, telecommunications, signal processing and controls. Interdisciplinary engineering programs are available in other areas.

Well equipped laboratories are available for work in all of these areas. Special laboratory facilities are available to graduate students in telecommunications, solid-state electronics, integrated circuit design, electromagnetics, microwave microelectronics, electrotropics, computer vision and electric power systems. The department has many workstations and high end PCs in general access laboratories and excellent computing facilities available in the individual research laboratories. The workstations are supported by a large Sun file servers and two computational servers, and the PCs are supported by a Novell network.

There is no foreign language requirement for the PhD or DEng programs in electrical and computer engineering.

## Faculty

Abu-Rub, Haithem A, Professor  
Electrical & Computer Eng-Qatar  
PHD, Gdansk University of Technology, Poland, 1995

Alnuweiri, Hussein, Professor  
Electrical & Computer Eng-Qatar  
PHD, University of Southern California, 1989

Annapareddy, Narasimha, Professor  
Electrical & Computer Eng  
PHD, University of Illinois at Urbana-Champaign, 1990

Balog Jr, Robert S, Professor  
Electrical & Computer Eng  
PHD, University of Illinois, 2006

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Begovic, Miroslav M, Professor  
Electrical & Computer Eng  
PHD, Virginia Polytechnic Institute, 1989

Bhattacharyya, S P, Professor  
Electrical & Computer Eng  
PHD, Rice University, 1971

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Electrical & Computer Eng  
PHD, Texas A&M University, 2018

Boutros, Joseph J, Professor  
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PHD, Telecom Paris Tech (ENST), 1996

Braga Neto, Ulisses, Professor  
Electrical & Computer Eng  
PHD, John Hopkins University, 2002

Butler-Purry, Karen L, Professor  
Electrical & Computer Eng  
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Electrical & Computer Eng  
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Chamberland-Tremblay, Jean-Francois, Professor  
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Electrical & Computer Eng  
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PHD, University of Wisconsin, Madison, 1981

Enjeti, Prasad N, Professor  
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PHD, Concordia University, Montreal, 1984

Entesari, Kamran, Professor  
Electrical & Computer Eng  
PHD, University of Michigan, 2006

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Kezunovic, Mladen, Regents Professor  
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Khatri, Sunil P, Professor  
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PHD, University of California at Berkeley, 1999

Kinsy, Michel, Associate Professor  
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Nounou, Hazem N, Professor  
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Palermo, Samuel M, Professor  
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Rahimian, Mina M, Senior Lecturer  
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Rajendran, Jeyavijayan, Assistant Professor  
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PHD, New York University, 2015

Rentzepis, Peter M, Professor  
Electrical & Computer Eng  
PHD, University of Cambridge, 1963

Righetti, Raffaella, Associate Professor  
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PHD, University of Houston, 2005

Russell Jr, Billy D, Distinguished Professor and Regents Professor  
Electrical & Computer Eng  
PHD, University of Oklahoma, 1975

Savari, Serap A, Associate Professor  
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Serpedin, Erchin, Professor  
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PHD, University of Virginia, 1999

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Shakkottai, Srinivas G, Professor  
Electrical & Computer Eng  
PHD, University of Illinois, 2007

Shen, Yang, Associate Professor  
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PHD, Boston University, 2008

Shi, Weiping, Professor  
Electrical & Computer Eng  
PHD, University of Illinois, 1992

Silva-Martinez, Jose E, Professor  
Electrical & Computer Eng  
PHD, Katholieke Universiteit Leuven, 1992

Singh, Chanan, University Distinguished Professor and Regents Professor  
Electrical & Computer Eng  
PHD, University of Saskatchewan, 1972

Sprintson, Alexander, Professor  
Electrical & Computer Eng  
PHD, Israel Institute of Technology, 2003

Tian, Chao, Associate Professor  
Electrical & Computer Eng  
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Toliyat, Hamid A, Professor  
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PHD, University of Wisconsin, Madison, 1991

Villareal, Samuel S, Senior Lecturer  
Electrical & Computer Eng  
PHD, Texas A&M University, 1999

Watson, Karan L, Senior Professor  
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PHD, Texas Tech University, 1982

Weichold, Mark H, Regents Professor  
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Williams, Richard, Professor  
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Wright, Steven M, Professor  
Electrical & Computer Eng  
PHD, University of Illinois, 1984

Xie, Le, Professor  
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PHD, Carnegie Mellon University, 2009

Xiong, Zixiang, Professor  
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Yoon, Byung-Jun, Associate Professor  
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Zhang, Xi, Professor  
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Zilany, Muhammad Shamsul Arefeen, Instructional Assistant Professor  
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Zou, Jun, Professor  
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PHD, University of Illinois, 2002

## Masters

- Master of Engineering in Computer Engineering (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/computer-meng/>)
- Master of Engineering in Electrical Engineering (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/electrical-meng/>)
- Master of Science in Computer Engineering (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/computer-ms/>)
- Master of Science in Electrical Engineering (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/electrical-ms/>)

## Doctoral

- Doctor of Philosophy in Computer Engineering (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/computer-phd/>)
- Doctor of Philosophy in Electrical Engineering (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/electrical-phd/>)

## Certificates

- Analog and Mixed-Signal Integrated Circuit Design Certificate (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/analog-and-mixed-signal-integrated-circuit-design-certificate/>)
- Electric Energy Systems Certificate (<http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/electric-energy-systems-certificate/>)