DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

www.ece.tamu.edu (http://www.ece.tamu.edu)

Head: C. Georgiades

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 Science non-thesis 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 MS non-thesis 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 genomics, signal processing, computer engineering, electromagnetic and microwave devices, 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, electromagnetic devices, 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
PHD, Gdansk University of Technology, Poland, 1995

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

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

Awadallah, Selma, Engineering Assistant Professor
Electrical & Computer Eng
PHD, University of Manchester, 2014

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

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

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

Birchfield, Adam, Assistant Professor
Electrical & Computer Eng
PHD, Texas A&M University, 2018

Bouhali, Othmane, Research Professor
Electrical & Computer Eng
PHD, Universite Libre de Bruxelles, Faculte des Sciences, 1999

Boutros, Joseph J, Professor
Electrical & Computer Eng
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
PHD, Howard University, 1994

Cantrell Jr, Pierce E, Senior Associate Professor
Electrical & Computer Eng
PHD, Georgia Institute of Technology, 1981

Chamberland-Tremblay, Jean-Francois, Professor
Electrical & Computer Eng
PHD, University of Illinois, 2004

Chen, Xin, Assistant Professor
Electrical & Computer Eng
PHD, Harvard University, 2022

Choi, Seong G, Associate Professor
Electrical & Computer Eng
PHD, University of Illinois, 1994

Datta, Aniruddha, Professor
Electrical & Computer Eng
PHD, University of Southern California, 1991

Davis, Katherine M, Associate Professor
Electrical & Computer Eng
PHD, University of Illinois at Urbana-Champaign, 2011

Duffield, Nicholas G, Professor
Electrical & Computer Eng
PHD, Queen Mary College, Univ. of London, 1987

Ehsani, Mehrdad, Professor
Electrical & Computer Eng
PHD, University of Wisconsin, Madison, 1981
Enjeti, Prasad N, Professor
Electrical & Computer Eng
PHD, Concordia University, Montreal, 1984

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

Georgiades, Costas N, Professor
Electrical & Computer Eng
PHD, Washington University in St. Louis, 1985

Ghayeb, Ali, Professor
Electrical & Computer Eng
PHD, University of Arizona, 2000

Gratz, Paul V, Professor
Electrical & Computer Eng
PHD, The University of Texas at Austin, 2008

Han, Arum, Professor
Electrical & Computer Eng
PHD, Georgia Institute of Technology, 2005

Harris, Harlan R, Associate Professor
Electrical & Computer Eng
PHD, Texas Tech University, 2003

Hemmer, Philip R, Professor
Electrical & Computer Eng
PHD, Massachusetts Inst of Technology, 1984

Hou, J-Hong, Professor
Electrical & Computer Eng
PHD, University of Illinois Urbana Champaign, 2011

Hoyos, Sebastian, Professor
Electrical & Computer Eng
PHD, University of Delaware, 2004

Hu, Jiang, Professor
Electrical & Computer Eng
PHD, University of Minnesota, 2001

Jang, Wonhyoek, Lecturer
Electrical & Computer Eng
PHD, University of Illinois at Urbana-Champaign, 2017

Ji, Jim X, Professor
Electrical & Computer Eng
PHD, University of Illinois, 2003

Kalaris, Stavros, Professor of the Practice
Electrical & Computer Eng
MS, University of Arizona, 1991

Karsilayan, Aydin I, Associate Professor
Electrical & Computer Eng
PHD, Portland State University, 2000

Katehi-Tseregounis, Linda, Professor
Electrical & Computer Eng
PHD, University of California, 1984

Kezunovic, Mladen, Regents Professor
Electrical & Computer Eng
PHD, University of Kansas, 1980

Khatri, Sunil P, Professor
Electrical & Computer Eng
PHD, University of California at Berkeley, 1999

Kim, Soaram, Assistant Professor
Electrical & Computer Eng
PHD, Clemson University, 2018

Kish, Laszlo B, Professor
Electrical & Computer Eng
PHD, Uppsal University, Sweden, 1994

Kumar, Panganamala R, University Distinguished Professor and Regents Professor
Electrical & Computer Eng
PHD, Washington University in St. Louis, 1977

Kurban, Hasan, Research Assistant Professor
Electrical & Computer Eng
PHD, Indiana University, 2017

Lin, Paotai, Associate Professor
Electrical & Computer Eng
PHD, Northwestern University, 2009

Liu, Tie, Professor
Electrical & Computer Eng
PHD, University of Illinois, 2006

Lu, Mi, Professor
Electrical & Computer Eng
PHD, Rice University, 1987

Lusher, John D, Professor of the Practice
Electrical & Computer Eng
PHD, Texas A&M University, 2018

Madsen, Christi K, Professor
Electrical & Computer Eng
PHD, Rutgers State University of New Jersey, 1996

Manisseri Kalathil, Dileep, Associate Professor
Electrical & Computer Eng
PHD, University of Southern California, Los Angeles, 2014

Menon, Arya, Assistant Professor
Electrical & Computer Eng
PHD, Oregon State University, 2021

Michalski, Krzysztof A, Associate Professor
Electrical & Computer Eng
PHD, University of Kentucky, 1981

Miller, Scott L, Professor
Electrical & Computer Eng
PHD, University of California at San Diego, 1988
Moreira-Tamayo, Oscar, Professor of the Practice
Electrical & Computer Eng
PHD, Texas A&M University, 1996

Narayanan, Krishna R, Professor
Electrical & Computer Eng
PHD, Georgia Institute of Technology, 1998

Nevels, Robert D, Professor
Electrical & Computer Eng
PHD, University of Mississippi, 1979

Nounou, Hazem N, Professor
Electrical & Computer Eng
PHD, Ohio State University, 2000

Nowka, Kevin J., Professor Of The Practice
Electrical & Computer Eng
PHD, Stanford University, 1995

Overbye, Thomas J, Professor
Electrical & Computer Eng
PHD, University of Wisconsin, 1991

Palermo, Samuel M, Professor
Electrical & Computer Eng
PHD, Stanford University, 2007

Peeples, Joshua, Assistant Professor
Electrical & Computer Eng
PHD, University of Florida, 2022

Qaraqe, Khalid A, Professor
Electrical & Computer Eng
PHD, Texas A&M University, 1997

Qian, Xiaoning, Professor
Electrical & Computer Eng
PHD, Yale University, 2005

Rajendran, Jeyavijayan, Associate Professor
Electrical & Computer Eng
PHD, New York University, 2015

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

Righetti, Raffaella, Associate Professor
Electrical & Computer Eng
PHD, University of Houston, 2005

Roy, Sandip, Professor
Electrical & Computer Eng
PHD, Massachusetts Institute of Technology, 2003

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

Savari, Serap A, Associate Professor
Electrical & Computer Eng
PHD, Massachusetts Inst of Technology, 1996

Serpedin, Erchin, Professor
Electrical & Computer Eng
PHD, University of Virginia, 1999

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

Shen, Yang, Associate Professor
Electrical & Computer Eng
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
PHD, Cornell University, 2005

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

Watson, Karan L, Senior Professor
Electrical & Computer Eng
PHD, Texas Tech University, 1982

Weichold, Mark H, Regents Professor
Electrical & Computer Eng
PHD, Texas A&M University, 1983

Williams, Richard, Professor
Electrical & Computer Eng
PHD, University of California at Berkeley, 1978

Wright, Steven M, Professor
Electrical & Computer Eng
PHD, University of Illinois, 1984

Xie, Le, Professor
Electrical & Computer Eng
PHD, Carnegie Mellon University, 2009

Xiong, Zixiang, Professor
Electrical & Computer Eng
PHD, University of Illinois, 1996
Yi, Suin, Assistant Professor
Electrical & Computer Eng
PHD, Texas A&M University, 2017

Yoon, Byung-Jun, Professor
Electrical & Computer Eng
PHD, California Institute of Technology, 2007

Zhang, Xi, Professor
Electrical & Computer Eng
PHD, University of Michigan, 2002

Zilany, Muhammad Shamsul Arefeen, Instructional Assistant Professor
Electrical & Computer Eng
PHD, McMaster University, 2007

Zou, Jun, Professor
Electrical & Computer Eng
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/)
• Digital Integrated Circuit Design Certificate (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/digital-integrated-circuit-design-certificate/)
• Electric Energy Systems Certificate (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/electric-energy-systems-certificate/)
• Electromagnetic Fields and Microwave Circuit Design Certificate (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/electromagnetic-fields-microwave-circuit-design-certificate/)
• Semiconductor Manufacturing Certificate (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/electrical-computer/semiconductor-manufacturing-certificate/)