

Electrical and Computer Engineering

Department Information

- **Department Chair:**
Benjamin Braaten, Ph.D.
- **Graduate Coordinator:**
Sudarshan Srinivasan, Ph.D.
- **Department Location:**
101 Electrical Engineering Building
- **Department Phone:**
(701) 231-7019
- **Department Web Site:**
www.ndsu.edu/ece/ (<http://www.ndsu.edu/ece/>)
- **Application Deadline:**
February 28 for fall and October 15 for spring (openings may be very limited for spring)
- **Credential Offered:**
Ph.D., M.S., M.Engr.
- **Test Requirement:**
GRE
- **English Proficiency Requirements:**
TOEFL ibT 71; IELTS 6; Duolingo 100 To qualify for teaching assistantship TOEFL ibT 100; IELTS 7; Duolingo 125

Benjamin Braaten, Ph.D.

North Dakota State University, 2009

Research Interests: Applied Electromagnetics, Electromagnetic Compatibility and Signal Integrity

Dong Cao, Ph.D.

Michigan State University, 2012

Research Interests: Power Electronics and High Power Electrical Motor Drives, Renewable Energy Systems Grid-Integration and Standalone Operation, Power Management For Smart Grid, Transportation Electrification/Hybrid Electric Vehicle, Microgrid/Distributed Generation Source, Wide-Band Gap Device

Nilanjan Ray Chaudhuri, Ph.D.

Imperial College, 2011

Research Interests: Power System Dynamics and Control, Wide-Area Monitoring Systems, Application Of Power Electronics In Power Systems, Online System Identification, FACTS, HVDC, Renewable Energy Systems, Distributed Energy, Demand Side Response

Debasis Dawn, Ph.D.

Tohoku University, 1993

Research Interests: Microelectronics/Microsystems, Radio Frequency Integrated Circuits (RFIC) Silicob (CMOS/SiGe), Ics for radar, sensors

Daniel L. Ewert, Ph.D.

University of North Dakota, 1989

Research Interests: Biomedical Engineering

Jacob Glower, Ph.D.

The Ohio State University, 1988

Research Interests: Control Systems, Digital Systems

Na Gong, Ph.D.

University of Buffalo, SUNY, 2013

Research Interests: VLSI, Computer Architecture, and EDA

Roger Green, Ph.D.

University of Wyoming, 1998

Research Interests: Signal Processing, Array Processing, Time-frequency Analysis

Sanjay Karmakar, Ph.D.

University of Colorado, Boulder 2012

Research Interests: Wireless Communications, Information Theory, Coding for MIMO Systems

Rajesh G. Kavasseri, Ph.D.

Washington State University, 2002

Research Interests: Power Systems, Nonlinear Dynamics, Renewable Energy resources

Samee U. Khan, Ph.D.

University of Texas-Arlington, 2007

Research Interests: Optimization, Robustness, and Security Of: Cloud, Grid, Cluster and Big Data Computing, Social Networks, Wired and Wireless Networks, Power Systems, Smart Grids, and Optical Networks.

Ivan T. Lima Jr., Ph.D.

University of Maryland, Baltimore County, 2003

Research Interests: Photonics

Dharmakeerthi Nawarathna, Ph.D.

University of Houston, 2005

Research Interests: Lab-on-a-chip Technologies, Single-cell Genomics, Nanobio-engineering, Tissue Engineering, Novel Imaging Techniques for Biology and Computational Simulations.

David A. Rogers, Ph.D.

University of Washington, 1971

Research Interests: Microwave Engineering, Electromagnetics, Fiber Optics

Mark Schroeder, Ph.D.

University of Texas, Austin, 1999

Research Interests: Biomedical Engineering

Scott C. Smith, Ph.D.

University of Central Florida, 2001

Research Interests: Asynchronous Logic, VLSI, Computer Architecture, Embedded Systems

Sudarshan Srinivasan, Ph.D.

Georgia Institute of Technology, 2007

Research Interests: Computer Engineering

Danling Wang, Ph.D.

University of Washington, 2013

Research Interest: Development of Sensor Devices Based on Novel Nanostructured Materials and Advanced Techniques. Focusing on Sensor Design, Fabrication, and Application of Early-Stage Human Disease Monitoring and Diagnosis, Such as Breath Analyzer for Diabetes; Industrial, and Military Safety, Such as Environmental Explosive or Toxic Gas Detection

Jinhui Wang, Ph.D.

University of Rochester and Beijing University of Technology, 2006

Research Interests: VLSI, Power Management for SoC and Microprocessor, Novel Memory Design, CAD Methodologies in VLSI

Qifeng Zhang, Ph.D.

Peking University, 2001

Research Interests Electric Materials and Devices for Energy Conversion and Storage, involving Solar Cells, Lithium Batteries, and Solid State Electrolytes; Nanomaterials for Sensor and Biomedical Applications; and Nanotechnology