

DEPARTMENT
AT A GLANCE
(2018)

23

FULL-TIME FACULTY

\$2.7M

RESEARCH SPENDING

265

GRADUATE STUDENTS

GRANTS & COLLABORATIONS

Air Force Office of Scientific
Research

Department of Energy

Department of the Army

National Institutes of Health

Muplus, Inc

NASA-Goddard

National Science Foundation

Office of Naval Research

Raytheon Company

Semiconductor Research
Corporation

Semprius, Inc.

Naval Research Laboratory

University of Pennsylvania

Department of Electrical & Computer Engineering

FACULTY AND RESEARCH FACT SHEET (2018)

*Research areas feature only a sample. Please visit websites for full research details and current projects.

- EMERGING RESISTIVE SWITCHING TECHNOLOGY (RRAM)
- ARTIFICIAL NEURONAL NETWORKS

Faculty: Dr. Gina Adam, Assistant Professor

- MEMS/NEMS
- MICROELECTRONICS
- VLSI SYSTEMS

Faculty: Dr. Shahrokh Ahmadi, Teaching Professor
Website: ece.seas.gwu.edu/shahrokh-ahmadi

- ELECTROMAGNETICS
- NANOTECHNOLOGY

Faculty: Dr. Amir Aslani, Assistant Professor
Website: ece.seas.gwu.edu/amir-aslani

- CONTROL SYSTEMS
- ROBOTICS
- SIGNAL & IMAGE PROCESSING

Faculty: Dr. Robert Carroll, Professor
Website: ece.seas.gwu.edu/robert-l-carroll

- RELIABILITY & RESILIENCE MODELING & ASSESSMENT OF POWER & ENERGY SYSTEMS
- POWER SYSTEM PROTECTION & CONTROL
- APPLICATIONS OF SYNCHROPHASOR TECHNOLOGY IN ELECTRIC POWER SYSTEMS

Faculty: Dr. Payman Dehghanian, Assistant Professor
Website: ece.seas.gwu.edu/payman-dehghanian

- ELECTROMAGNETICS
- MICROWAVE ENGINEERING
- RADIATION SYSTEMS

Faculty: Dr. Edward Della Torre, Professor
Website: ece.seas.gwu.edu/edward-della-torre

- COMPUTER ARCHITECTURE
- HIGH-PERFORMANCE COMPUTING

Faculty: Dr. Tarek A. El-Ghazawi, Professor
Website: seas.gwu.edu/~tarek

- COMMUNICATIONS & NETWORKS
- SIGNAL & IMAGE PROCESSING
- SYSTEMS & CONTROLS

Faculty: Dr. Milos Doroslovacki, Associate Professor
Website: ece.seas.gwu.edu/milos-doroslovacki

- COMPUTER ARCHITECTURE
- HIGH-PERFORMANCE COMPUTING

Faculty: Dr. Tarek A. El-Ghazawi, Professor
Website: ece.seas.gwu.edu/~tarek

- **AUTOMATIC TARGET RECOGNITION**
- **IMAGE RESTORATION**
- **RANDOM FIELD MODELING**

Faculty: Dr. Kie-Bum Eom,
Professor
Website: [ece.seas.gwu.edu/
kie-bum-eom](http://ece.seas.gwu.edu/kie-bum-eom)

- **CONTROLS**
- **ELECTRIC POWER & ENERGY**
- **SIGNAL & IMAGE PROCESSING**

Faculty: Dr. Robert Harrington,
Professor
Website: [ece.seas.gwu.edu/
robert-harrington](http://ece.seas.gwu.edu/robert-harrington)

- **COMMUNICATION & NETWORKS**

Faculty: Dr. Hermann Helgert,
Professor
Website: [ece.seas.gwu.edu/
hermann-helgert](http://ece.seas.gwu.edu/hermann-helgert)

- **BIG DATA**
- **COMPUTER ARCHITECTURE & SYSTEMS**
- **GRAPH ANALYTICS**

Faculty: Dr. Howie Huang,
Professor
Website: seas.gwu.edu/~howie

- **MAGNETIC**
- **MEMS/NEMS**
- **ELECTRONICS & PHOTONICS**

Faculty: Dr. Can Korman
Associate Dean & Professor
Website: [ece.seas.gwu.edu/
can-korman](http://ece.seas.gwu.edu/can-korman)

- **SIGNAL & IMAGE PROCESSING**
- **SYSTEMS & CONTROLS**

Faculty: Dr. Nicholas
Kyriakopoulos, Professor
Website: [ece.seas.gwu.edu/
nicholas-kyriakopoulos](http://ece.seas.gwu.edu/nicholas-kyriakopoulos)

- **COMMUNICATION & NETWORKS**
- **CYBERSECURITY**
- **NETWORK OPTIMIZATION**

Faculty: Dr. Tian Lan,
Associate Professor
Website: seas.gwu.edu/~tlan

- **APPLIED ELECTROMAGNETICS**
- **MICROWAVE ENGINEERING**
- **RADIATION SYSTEMS**

Faculty: Dr. Roger Lang,
Professor
Website: [ece.seas.gwu.edu/
roger-lang](http://ece.seas.gwu.edu/roger-lang)

- **COMMUNICATIONS & NETWORKS**
- **HIGH-PERFORMANCE COMPUTING ARCHITECTURES**
- **MEMS/NEMS**

Faculty: Dr. Ahmed Louri,
Professor
Website: hpcat.seas.gwu.edu

- **COMMUNICATIONS**
- **INFORMATION THEORY**
- **NETWORKS**

Faculty: Dr. Omur Ozel
Assistant Professor
Website: [ece.seas.gwu.edu/
omur-ozel](http://ece.seas.gwu.edu/omur-ozel)

- **COMPUTING IN OPTICS**
- **NANOPHOTONICS**
- **OPTO-ELECTRONICS**

Faculty: Dr. Volker Sorger,
Associate Professor
Website: sorger.seas.gwu.edu

- **CLOUD COMPUTING**
- **DATA CENTER NETWORKS**
- **OPTICAL NETWORKS**

Faculty: Dr. Suresh Subramaniam, Professor & Department Chair
Website: seas.gwu.edu/~suresh

- **COMPUTER ARCHITECTURE**
- **HIGH-PERFORMANCE COMPUTING**
- **MULTICORE PROCESSORS**

Faculty: Dr. Guru Venkataramani, Associate Professor
Website: seas.gwu.edu/~guruv

- **ELECTRONICS & PHOTONICS**
- **MEMS/NEMS**

Faculty: Dr. Mona Zaghloul, Professor
Website: ece.seas.gwu.edu/mona-zaghloul

Department Contact:

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Admissions Information:

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engineering@gwu.edu