

THE GEORGE WASHINGTON UNIVERSITY

WASHINGTON, DC

DEPARTMENT AT A GLANCE (2018)

11

FULL-TIME FACULTY

\$2.1M

RESEARCH SPENDING

67

GRADUATE STUDENTS

GRANTS & COLLABORATIONS

American Heart Association

Army Research Laboratory

Children's National Medical Center

Commonwealth Research Commercialization Fund

Department of Defense

Food & Drug Administration

GW Cancer Center

National Institutes of Health

National Science Foundation

Leducq Foundation

Department of Biomedical Engineering

FACULTY AND RESEARCH FACT SHEET (2018)

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

- BIOELECTRONICS AND IMAGING
- CARDIOVASCULAR DEVICES
- CARDIOVASCULAR ENGINEERING

Faculty: Dr. Igor Efimov, Alisann & Terry Collins Professor
Website: <http://efimovlab.org>

- CARDIAC OPTOGENETICS
- HIGH-THROUGHPUT TECHNOLOGIES
- OPTICAL IMAGING

Faculty: Dr. Emilia Entcheva, Professor
Website: entcheva.seas.gwu.edu

- CARDIAC ELECTRICAL ACTIVITY
- HIGH-SPEED OPTICAL ASSESSMENT OF CARDIAC PHYSIOLOGY
- MITOCHONDRIAL FUNCTION

Faculty: Dr. Matthew Kay, Professor
Website: bme.seas.gwu.edu/matthew-kay

- TEACHING BIOMEDICAL ENGINEERING STUDENTS DESIGN
- ASSISTIVE AND ADAPTIVE DEVICE DESIGN
- PROTOTYPING MEDICAL DEVICES

Faculty: Dr. David T. Lee, Professor of Practice
Website: bme.seas.gwu.edu/david-t-lee

- MICROFLUIDICS
- NANOPHOTONICS
- WEARABLE BIOSENSORS

Faculty: Dr. Zhenyu Li, Associate Professor
Website: sites.google.com/site/gwulilab/

- HYPERSPECTRAL IMAGING
- IMAGE AND SIGNAL PROCESSING
- MEDICAL IMAGING AND IMAGE ANALYSIS

Faculty: Dr. Murray H. Loew, Professor & Department Chair
Website: bme.seas.gwu.edu/murray-h-loew

- BIO-INTEGRATED ELECTRONICS
- IMPLANTABLE OPTOELECTRONIC SYSTEMS
- CARDIOVASCULAR AND NEUROENGINEERING

Faculty: Dr. Luyao Lu, Assistant Professor
Website: lu.seas.gwu.edu/

- ASSISTIVE ROBOTICS
- MACHINE LEARNING AND VIRTUAL REALITY
- TELEMEDICAL INTERACTION

Faculty: Dr. Chung-hyuk Park, Associate Professor
Website: chunghyukpark.com

- **CELLULAR THERAPEUTICS**
- **DIAGNOSTIC PLATFORMS**
- **NANOMEDICINE**

Faculty: Dr. Anne-Laure Papa,
Assistant Professor

Website: [www.seas.gwu.edu/
anne-laure-papa](http://www.seas.gwu.edu/anne-laure-papa)

- **IMAGING INSTRUMENTATION**
- **MICROFABRICATED OCT SCANNERS**
- **SOFTWARE APPLICATION FOR HUMAN DISEASES**

Faculty: Dr. Jason Zara,
Professor

Website: [bme.seas.gwu.edu/
jason-m-zara](http://bme.seas.gwu.edu/jason-m-zara)

- **THERAPEUTIC ULTRASOUND**
- **DRUG DELIVERY**

Faculty: Dr. Vesna Zderic,
Professor

Website:
zdericlab.seas.gwu.edu

Department Contact:

bme.seas.gwu.edu
biomed@gwu.edu

Admissions Information:

graduate.seas.gwu.edu
engineering@gwu.edu