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7-2021

## EN at a Glance, Academic Year 2020-2021

Graduate School of Engineering and Management, Air Force Institute of Technology

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Air Force Institute of Technology

# GRADUATE SCHOOL OF ENGINEERING & MANAGEMENT

## ACADEMIC YEAR 2020-2021 AT A GLANCE

### ACADEMIC DEPARTMENTS & DEGREE PROGRAMS

#### Aeronautics & Astronautics

Aeronautical Engineering (MS, PhD)  
Astronautical Engineering (MS, PhD)  
Materials Science – Structural (MS, PhD)  
Space Systems (MS, PhD)

#### Electrical & Computer Engineering

Computer Engineering (MS, PhD)  
Computer Science (MS, PhD)  
Cyber Operations (MS)  
Electrical Engineering (MS, PhD)

#### Engineering Physics

Applied Physics (MS, PhD)  
Atmospheric Sciences (MS)  
Materials Science – Electronic/Photonic (MS, PhD)  
Nuclear Engineering (MS, PhD)  
Optical Science and Engineering (MS, PhD)  
Scientific & Technical Intelligence (MS)

#### Mathematics & Statistics

Applied Mathematics (MS, PhD)

#### Operational Sciences

Logistics (PhD)  
Logistics & Supply Chain Management (MS)  
Operations Management (MS)\*  
Operations Research (MS, PhD)

#### Systems Engineering & Management

Acquisition & Program Management (MS)  
Applied Systems Engineering (M.E.)  
Cost Analysis (MS)  
Engineering Management (MS)  
Environmental Engineering and Science (MS)  
Industrial Hygiene (MS)  
Systems Engineering (MS, PhD)

\* Located at Joint Base McGuire–Dix–Lakehurst

### ACCREDITATION

- Higher Learning Commission
- Engineering Accreditation Commission of ABET
- Applied and Natural Science Accreditation Commission of ABET

### PROFILE

The Graduate School of Engineering and Management is a nationally-recognized, Carnegie-classified High Research Activity doctoral institution and is the sole degree-granting entity at AFIT. The Graduate School currently offers 24 research-based, STEM master's degree programs, 14 PhD programs, and 15 graduate certificate programs. It maintains a typical enrollment of over 700 in-residence students and about 400 students in various non-resident programs. These degree programs serve military and civilian students across the U.S. Air & Space Forces, Department of Defense (DoD), other government agencies, and government contractors. The Graduate School provides its students with several significant advantages, including a more personalized educational experience; academic programs with a defense-related focus; and research on high-priority defense problems. AFIT has awarded 21,000+ degrees since 1956.

### MISSION

The AFIT Graduate School of Engineering and Management mission is to produce outstanding technical leaders in the Department of Defense by providing superior graduate education built on defense-focused research.

### ENROLLMENT (Fall 2020)

#### ENROLLMENT BY TYPE

Master's*	619 (54.1%)
PhD	150 (13.1%)
Certificate	381 (33.3%)
Non-degree	30 (2.6%)

Resident	717 (62.6%)
Distance Learning	428 (37.4%)

**TOTAL 1145**

\*Students may enroll at more than one degree level (e.g., Master's and Certificate) and are counted once for each degree level.

#### STUDENT DEMOGRAPHICS

USAF	738 (64.5%)
Sister Services	67 (5.9%)
International Military	5 (0.4%)

Civilian – DoD	270 (23.6%)
Civilian – Non-DoD	65 (5.7%)

Male	950 (83.0%)
Female	195 (17.0%)

Full-time**	622 (54.3%)
Part-time	523 (45.7%)

\*\*FT/PT status based on student type and credit hours.

### DEGREES AWARDED (AY 2019-2020)

Master's	285
PhD	23
Certificate	188

**TOTAL 496**



### AFIT CAMPUS

Located approximately 10 miles east of Dayton, Ohio, the campus resides on Wright-Patterson Air Force Base along with the Air Force Research Laboratory, the National Air and Space Intelligence Center, the Air Force School of Aerospace Medicine, Air Force Material Command, and the Air Force Life Cycle Management Center.

## FULL-TIME FACULTY & STAFF (Fall 2020)

### TENURE-TRACK & TENURED FACULTY (100% PhD)

Military (includes sister services)	74
Civilian	74
<b>TOTAL</b>	<b>148</b>

### OTHER FULL-TIME FACULTY & STAFF

Non-tenure Track Faculty	12
Research Faculty	12
Post-docs	12
FT Civilian Staff & Administrators	79
FT Military Staff & Administrators	3

### FACULTY DISTINCTIONS

Professional Society Fellows	24
Distinguished Professors	3
Emeritus Faculty	27

## GRADUATE SCHOOL RESEARCH (FY 2019-2020)

### FUNDING EXECUTION

Total Research Expenditures	\$34.4M
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### RESEARCH OUTPUT

Refereed Journal Publications	373
Refereed Conference Proceedings	182
Patents Awarded	5
Total Patents Awarded 2001-2020	58

Visit the AFIT SCHOLAR website at <https://scholar.afit.edu> for information on student research products.

### RESEARCH CENTERS

Comprising a critical mass of specialists, the Graduate School's eight research centers engage in highly-focused, specialized research areas relevant to developing solutions to critical Air Force and DoD technical challenges.

Autonomy & Navigation Technology (ANT)  
Center for Cyberspace Research (CCR)  
Center for Directed Energy (CDE)  
Center for Operational Analysis (COA)  
Center for Space Research & Assurance (CSRA)  
Center for Technical Intelligence Studies & Research (CTISR)  
Nuclear Event Analysis & Testing Center for Specialized Research (NEAT)  
STAT Center of Excellence (STAT-COE): *DoD-designated research center of excellence*

- AFIT was designated as the Air Force's Cyberspace Technical Center of Excellence in 2008.
- AFIT partnered with the Department of Homeland Security to establish the Homeland Security Community of Best Practices in 2020.

## ALUMNI

### PROMINENT ALUMNI CATEGORIES

Current Active Duty AF General Officers	31
Current AF Civilian Senior Level Leaders	33
Former AF Four-Star Generals	11
Former NASA Astronauts	16

### NOTABLE AFIT ALUMNI

#### Colonel Guion Bluford, Jr., PhD, USAF, Ret

PhD Aerospace Engineering, 1978

MS Aerospace Engineering, 1974, Distinguished Graduate

*Former NASA Astronaut; first African American in space*

#### Colonel James F. Geurts, USAF, Ret, SES

MS Electrical Engineering, 1992, Distinguished Graduate

*Under Secretary of the Navy (Performing the duties of)*

#### Dr. Michael R. Gregg, SES

PhD Applied Physics, 1996

MS Engineering Physics, 1992

*Director, Aerospace Systems Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH*

#### Dr. Thomas Kennedy

MS Electrical Engineering, 1979, Distinguished Graduate

*Chief Executive Officer, Raytheon Company*

#### Dr. Kelly D. Hammett, SES

PhD Systems Engineering, 1997

*Director, Directed Energy Directorate, Air Force Research Laboratory, Kirtland AFB, NM*

## CONTACTS

### Graduate School of Engineering & Management

[www.afit.edu/EN](http://www.afit.edu/EN)

AcademicAffairs@afit.edu

Academics (937) 255-3025

Research (937) 255-3633

### Office of Admissions

[www.afit.edu/ADMISSIONS](http://www.afit.edu/ADMISSIONS)

A3PS@afit.edu

(937) 255-6234 x3184

### AFIT Institutional Research

[www.afit.edu/INSTITUTIONALDATA](http://www.afit.edu/INSTITUTIONALDATA)

EN-DataRequest@afit.edu

### AFIT Alumni

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