EN at a Glance, Academic Year 2020-2021

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

Follow this and additional works at: https://scholar.afit.edu/docs

Recommended Citation
https://scholar.afit.edu/docs/81

This Report is brought to you for free and open access by AFIT Scholar. It has been accepted for inclusion in AFIT Documents by an authorized administrator of AFIT Scholar. For more information, please contact richard.mansfield@afit.edu.
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

ACREDITATION
• Higher Learning Commission
• Engineering Accreditation Commission of ABET
• Applied and Natural Science Accreditation Commission of ABET

PROFESSIONAL
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)

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military (includes sister services)</td>
<td>74</td>
</tr>
<tr>
<td>Civilian</td>
<td>74</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>148</strong></td>
</tr>
</tbody>
</table>

OTHER FULL-TIME FACULTY & STAFF

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-tenure Track Faculty</td>
<td>12</td>
</tr>
<tr>
<td>Research Faculty</td>
<td>12</td>
</tr>
<tr>
<td>Post-docs</td>
<td>12</td>
</tr>
<tr>
<td>FT Civilian Staff &amp; Administrators</td>
<td>79</td>
</tr>
<tr>
<td>FT Military Staff &amp; Administrators</td>
<td>3</td>
</tr>
</tbody>
</table>

FACULTY DISTINCTIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Society Fellows</td>
<td>24</td>
</tr>
<tr>
<td>Distinguished Professors</td>
<td>3</td>
</tr>
<tr>
<td>Emeritus Faculty</td>
<td>27</td>
</tr>
</tbody>
</table>

GRADUATE SCHOOL RESEARCH (FY 2019-2020)

FUNDING EXECUTION

Total Research Expenditures $34.4M

RESEARCH OUTPUT

<table>
<thead>
<tr>
<th>Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refereed Journal Publications</td>
<td>373</td>
</tr>
<tr>
<td>Refereed Conference Proceedings</td>
<td>182</td>
</tr>
<tr>
<td>Patents Awarded</td>
<td>5</td>
</tr>
<tr>
<td>Total Patents Awarded 2001-2020</td>
<td>58</td>
</tr>
</tbody>
</table>

Visit the AFIT SCHOLAR website at [https://scholar.afit.edu](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.

ALUMNI

PROMINENT ALUMNI CATEGORIES

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Active Duty AF General Officers</td>
<td>31</td>
</tr>
<tr>
<td>Current AF Civilian Senior Level Leaders</td>
<td>33</td>
</tr>
<tr>
<td>Former AF Four-Star Generals</td>
<td>11</td>
</tr>
<tr>
<td>Former NASA Astronauts</td>
<td>16</td>
</tr>
</tbody>
</table>

NOTABLE AFIT ALUMNI

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

PhD Aerospace Engineering, 1978

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

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

AFITAlumni@afit.edu

(937) 255-3636 x4393

Visit the AFIT SCHOLAR website at [https://scholar.afit.edu](https://scholar.afit.edu) for information on student research products.