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An Introduction to the Naval Postgraduate School

Monterey, California: Naval Postgraduate School

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NAVAL
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An Introduction to the NAVAL POSTGRADUATE SCHOOL



The Naval Postgraduate School mission: **educating students**

NPS MISSION – OPNAVINST 5450.210D

Programs: “Provide relevant and unique **advanced education and research programs** to increase the combat effectiveness of commissioned officers of the naval service to enhance the security of the United States.”

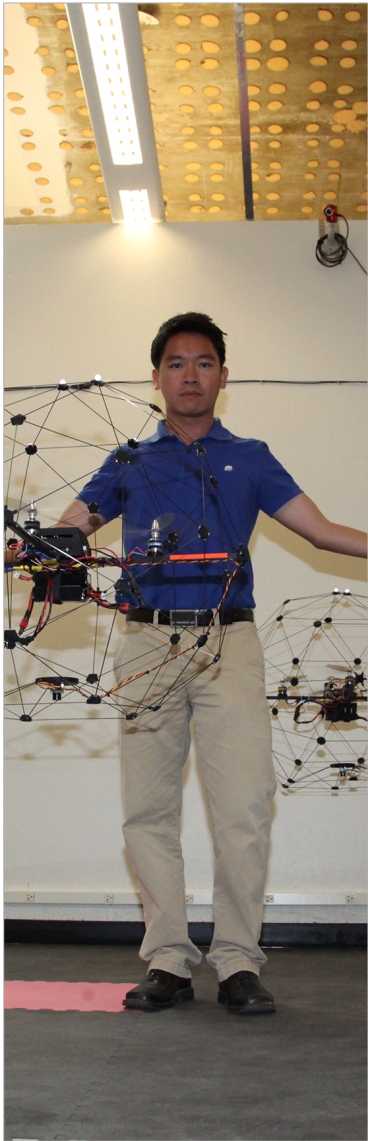
Research and Faculty: “In support of the foregoing, and **to sustain academic excellence**, foster and encourage a program of **relevant and meritorious research** which both supports the needs of the Navy and Department of Defense (DOD) while **building the intellectual capital** of NPS faculty.”



NPS fulfills the **graduate education needs** of the Department of the Navy, DOD and U.S. Government.

- In-residence and Distance Learning (DL)
- Master's, Ph.D., Engineer, MBA, EMBA, more
 - Biennial program reviews by flag-level sponsors
- Subspecialty and professional education
- Professional certifications
- Joint Professional Military Education
- Civilian Institutions (CIVINS)





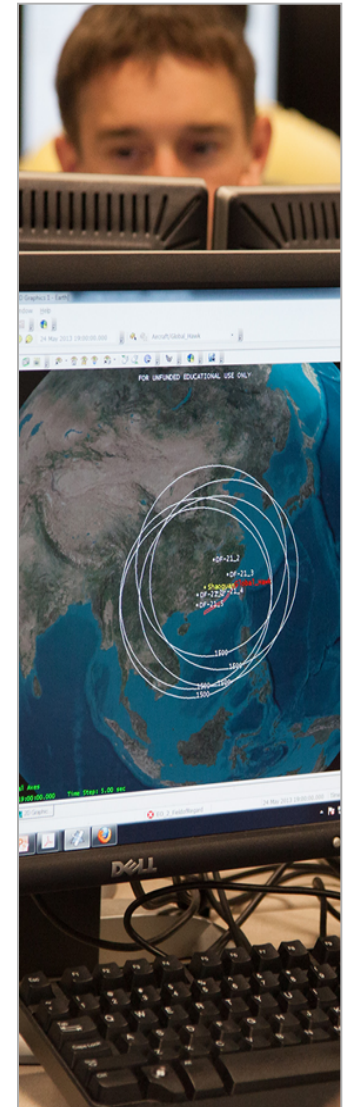
NPS provides **graduate-level research opportunities**, applying academic rigor to a defined niche.

- Responds to joint, interagency, emerging needs and coalition requirements of the Departments of Navy, Defense, Homeland Security and more
- Largest sponsor is the U.S. Navy
- Fosters a multi-service, interagency, coalition learning environment
- Prepares the joint intellectual leaders for tomorrow's joint forces



NPS' location creates **advantages** and **synergies** for a **dynamic** learning and research environment.

- **Area academic/research institutions** (Stanford University, UC Berkeley, UCSC, SJSU, Fleet Numerical Meteorology and Oceanography, Naval Research Laboratory, Defense Language Institute)
- **Open ocean ranges** (Monterey Bay) and **full access to restricted airspace** (Camp Roberts)
- **Silicon Valley's** powerful technological epicenter





NPS has a long, rich history in the pursuit of **innovative education** in support of **national security**.

- 1909 – Founded at the U.S. Naval Academy
- 1951 – Moved to Monterey
- 1951 – Operations Research department
- 1956 – Systems Management department
- 1972 – National Security Affairs department and Warfighting curricula (anti-submarine warfare)
- 1996 – Information Warfare curriculum
- 1999 – Joint Professional Military Education campus
- 2003 – Homeland Security curriculum
- 2004 – Information Operations curriculum
- 2011 – Cyber Systems and Operations curriculum
- 2012 – Energy Specializations

NPS programs are intricately reviewed by regional and national **accrediting bodies** and **fleet sponsors**.

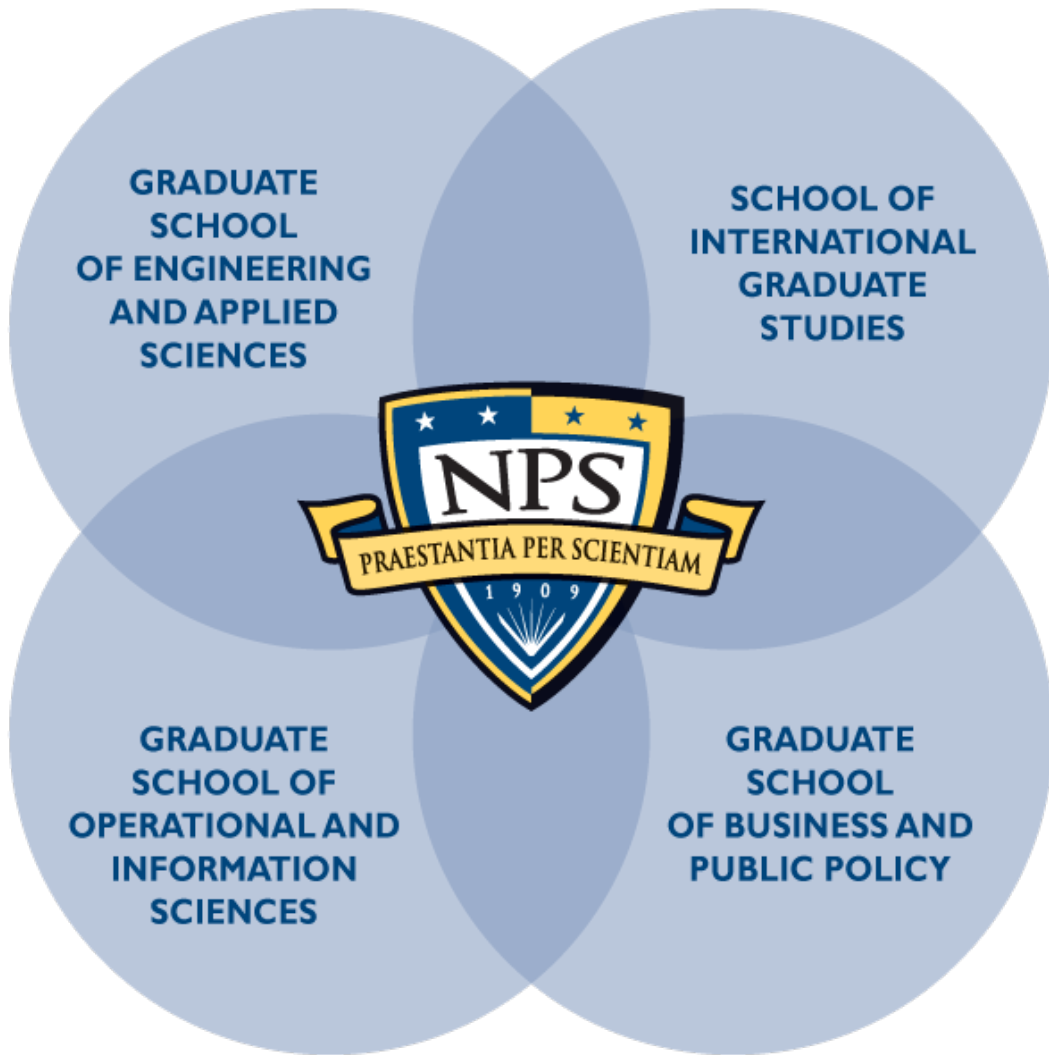
WSCUC Western Association of Schools and Colleges (WASC)
Senior College and University Commission

ABET Accreditation Board for Engineering
and Technology

AACSB Association to Advance Collegiate
Schools of Business

NASPAA Network of Schools of Public Policy,
Affairs, and Administration





NPS is relevance delivered.

- Student focused
- Four dynamic graduate schools
- Interdisciplinary academic groups combine expertise from across campus
- Unique, relevant curricula



The Graduate School of Engineering and Applied Sciences (GSEAS) develops leading-edge technological advancements focused on DOD's needs.

Physics

- Applied Physics
- Combat Systems Science and Technology
- Underwater Acoustics

Electrical & Computer Engineering

- Electronic Systems Engineering

Mechanical and Aerospace Engineering

- Naval/Mechanical Engineering
- Mechanical Engineering for Nuclear Trained Officers
- Reactors/Mechanical Engineering
- Aerospace Engineering

Mathematics

- Applied Mathematics

Space Systems Group

- Space Systems Engineering
- Space Systems Operations

Systems Engineering

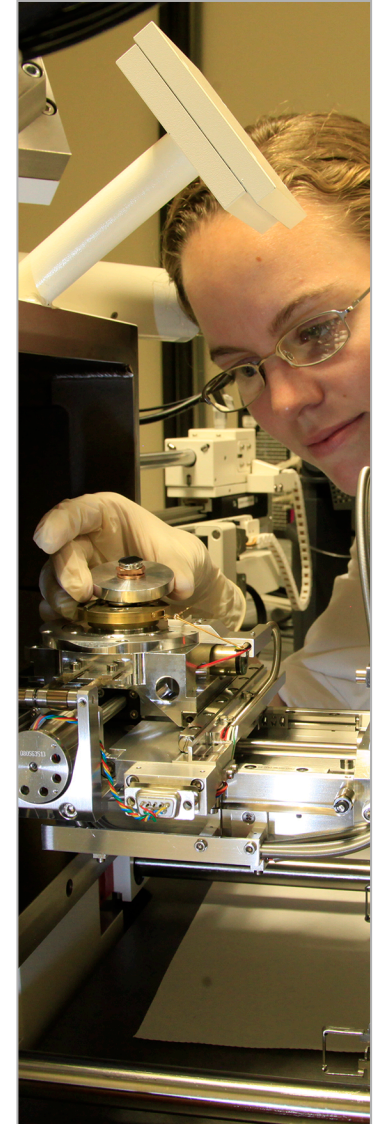
- Systems Engineering
- Systems Engineering Mgt.

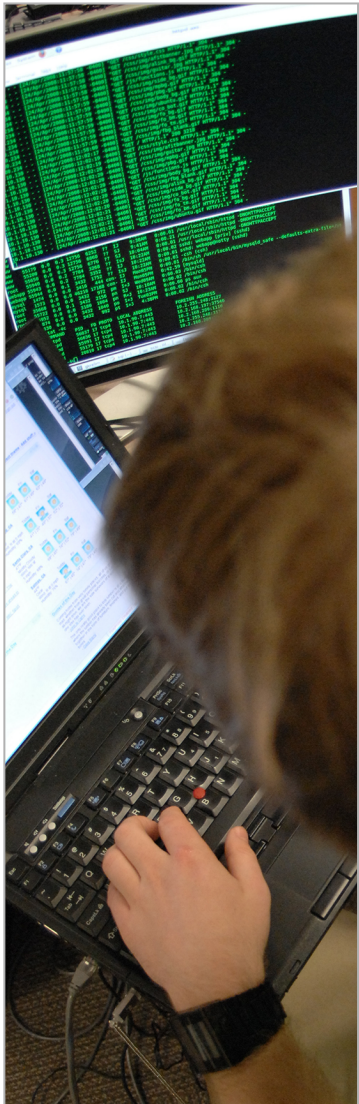
Undersea Warfare Group

- Undersea Warfare
- Underwater Acoustic Systems

Meteorology & Oceanography

- Meteorology
- Oceanography
- Operational Oceanography





The Graduate School of Operational and Information Sciences (GSOIS) meets warfighter requirements, today and tomorrow.

Computer Sciences

- Computer Science
- Computer Technology
- Software Engineering
- Modeling, Virtual Environments, and Simulation (MOVES)
- Identity Management and Cyber Security

Operations Research

- Operations Analysis
- Cost Estimating & Analysis
- Systems Analysis
- Human Systems Integration
- Joint Operational Logistics

Information Sciences

- Information Systems & Operations
- Joint C4I Systems
- Information Systems & Technology
- Information Sciences
- Information Warfare
- Electronic Warfare Systems
- Network Operations & Technology

Defense Analysis

- Joint Information Operations
- Special Operations & Irregular Warfare

Cyber Group

- Cyber Systems & Operations
- Applied Cyber Operations



The Graduate School of Business and Public Policy (GSBPP) provides unique education and research in the business of defense management.

Resident Programs

- Acquisition and Contract Management
- Financial Management
- Information Systems Management
- Material Logistics Support Management
- System Acquisition Management
- Supply Chain Management
- Defense Systems Analysis
- Manpower Systems Analysis

Non-Resident Programs

- Contract Management
- Program Management
- Executive MBA

Professional Development Programs

- Advanced Acquisition Program
- Human Resources

Defense Resources Management Institute (DRMI)

- Defense Resources Management
- Defense Management
- Decision Making
- Multi-Criteria Decision Making
- Budget Preparation & Execution
- Risk Management
- Programming





The School of International Graduate Studies (SIGS) provides an education for today's global challenges.

National Security Affairs/ Regional Studies

- Middle East, South Asia and Sub-Saharan Africa
- Europe and Eurasia
- Far East, Pacific, Southeast Asia
- Western Hemisphere

National Security Affairs/ Security Studies

- Strategy/Strategic Studies
- Civil-Military Relations
- Combating Terrorism: Policy and Strategy
- Homeland Security and Defense

Center for Homeland Defense & Security (CHDS)

- Master's Degree
- Executive Leaders Program / Seminars
- Fusion Center Leaders Program
- Radiological Emergency Preparedness
- University and Agency Partnership

Center for Civil-Military Relations (CCMR)

- Civil-Military Relations
- Defense Institution Building
- Maritime Security
- Peace Operations
- International Defense Acquisition
- Combating Terrorism
- Stabilization and Reconstruction



Resident Degree Students

*Average on Board
AY 2016*

Total Resident: 1,479

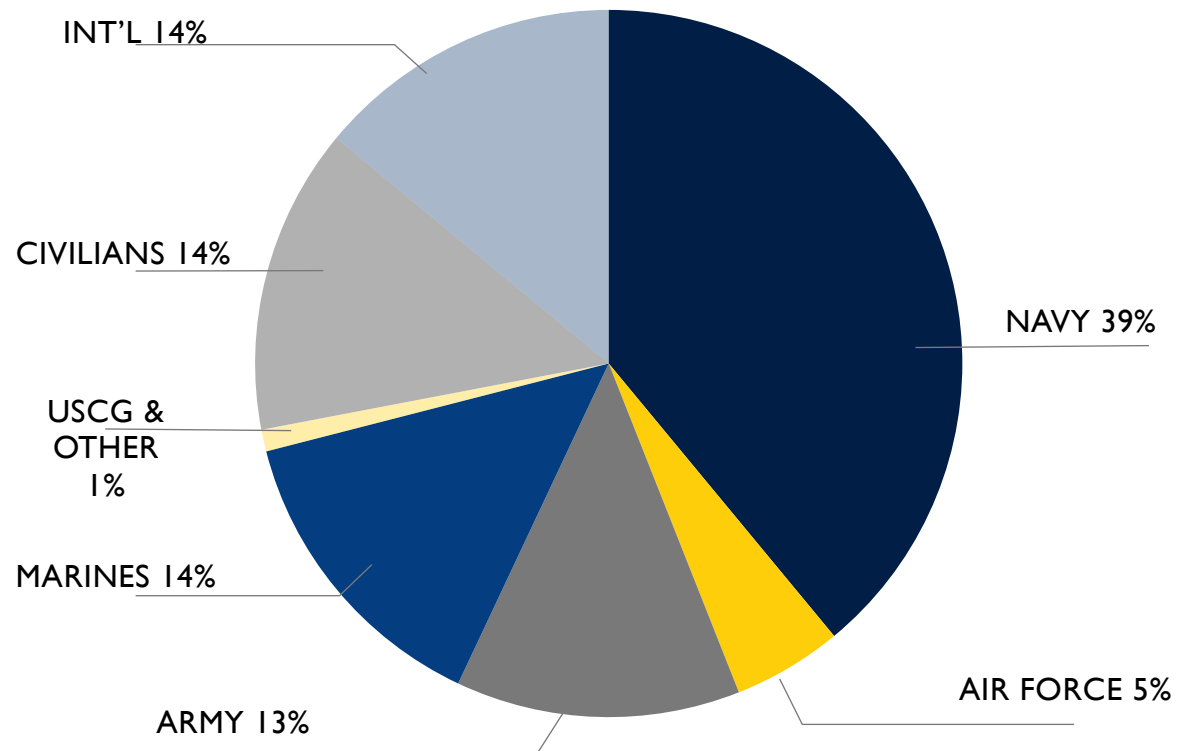
72% U.S. Military

14% International

14% Government
Civilian

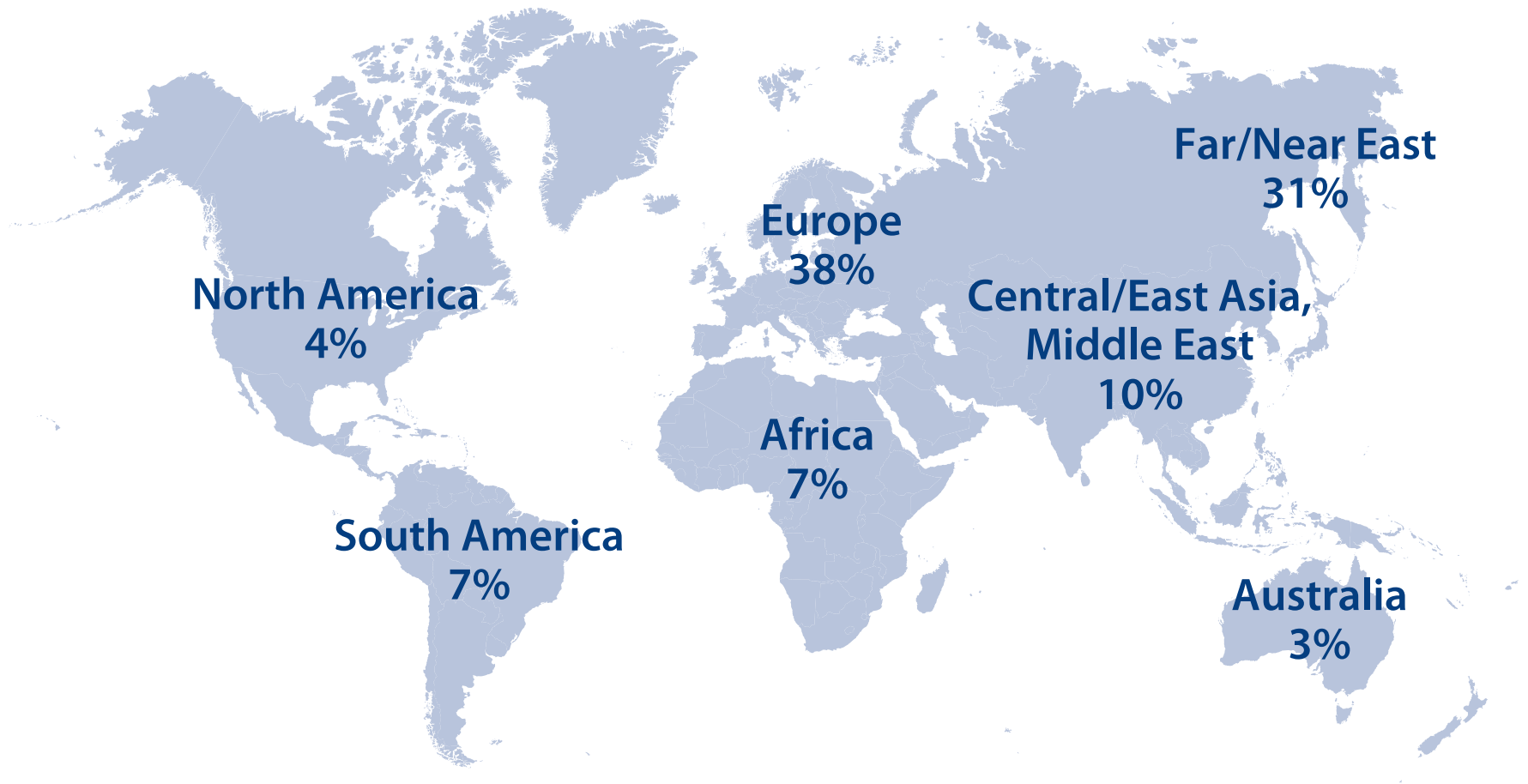
Resident Degree Student Enrollment

AY 2016 • Average on Board 1,479





International Resident Students (by Region)





The world comes to our door...

Caribbean, Central & South America (13)

Argentina	1
Brazil	4
Chile	1
Colombia	1
Peru	5
Trinidad	1

Africa (13)

Kenya	2
Mali	1
South Africa	4
Tanzania	1
Tunisia	2
Uganda	3

Europe (73)

Albania	1
Armenia	1
Denmark	5
Finland	1
Georgia	2
Germany	9
Greece	8
Netherlands	2
Norway	2
Spain	1
Sweden	2
Switzerland	1
Turkey	37
Ukraine	1

Central/East Asia & Middle East (20)

Bahrain	2
Israel	1
Jordan	1
Lebanon	1
Pakistan	12
Saudi Arabia	3

North America (7)

Canada	6
Mexico	1

Far/Near East & Australia (64)

Indonesia	6
Korea	12
Mongolia	1
Nepal	1
Philippines	2
Singapore	28
Sri Lanka	3
Taiwan	6

**Total Graduates:
6,085 Officers from 110 Countries**





Distance Learning (DL) Degree Students

*Average on Board
AY 2016*

Total DL Students: 989

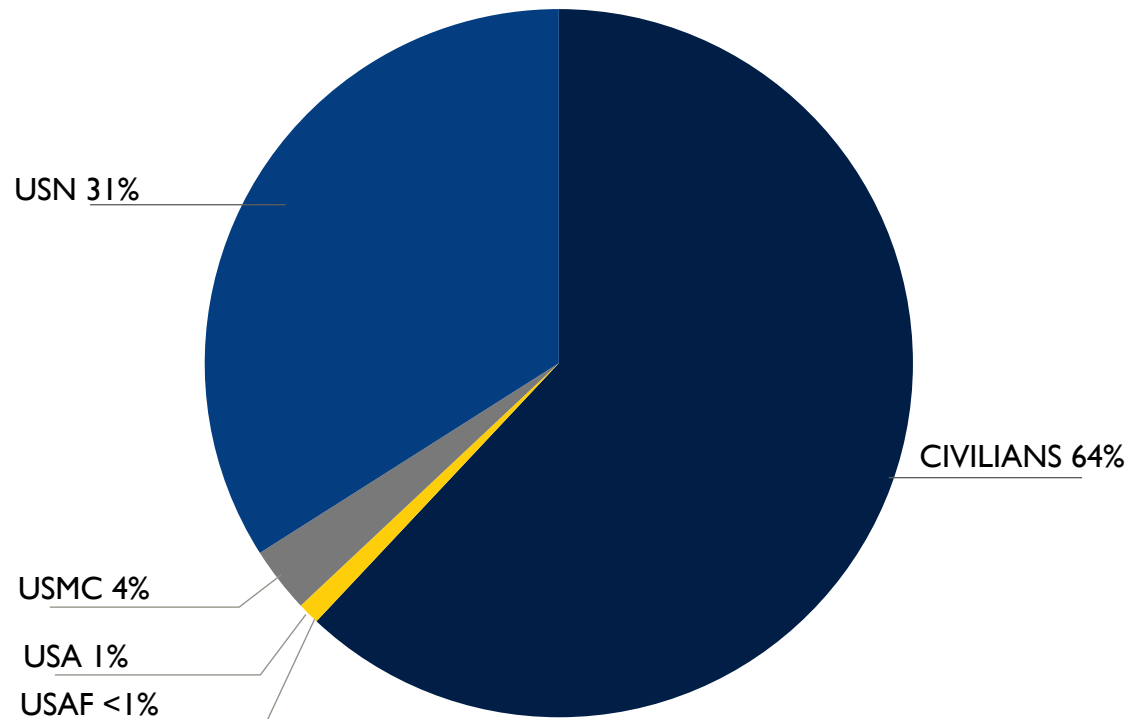
64% U.S. Government
Civilian

36% U.S. Military

31% U.S. Navy

DL Degree Student Enrollment

AY2016 • Average on Board 989





We bring the **best and brightest minds** to teach the next generation of leaders.

- Active recruiting from top Ph.D. programs
- A robust mix of tenured faculty, lecturers, visiting professors, others
- Includes 8% military personnel with strong academic credentials and recent operational expertise
- Integrates teaching with research
- No teaching assistants
- Develops technologies eligible for patents

FACULTY HIGHLIGHTS

605 CIVILIAN FACULTY

223 tenure or tenure-track (100% with doctorates)

382 non tenure-track

51 MILITARY FACULTY

Top Sources of Faculty Graduate Degrees

UC Berkeley	23
MIT	20
Stanford	19
USC	16
UCLA	12

Academic Leaders

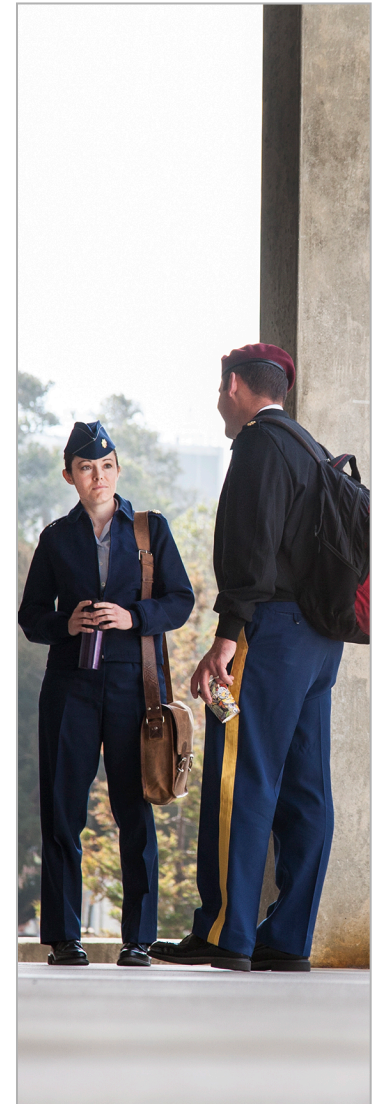
211 NPS faculty earned their highest degree from one of the nation's top 50 universities.

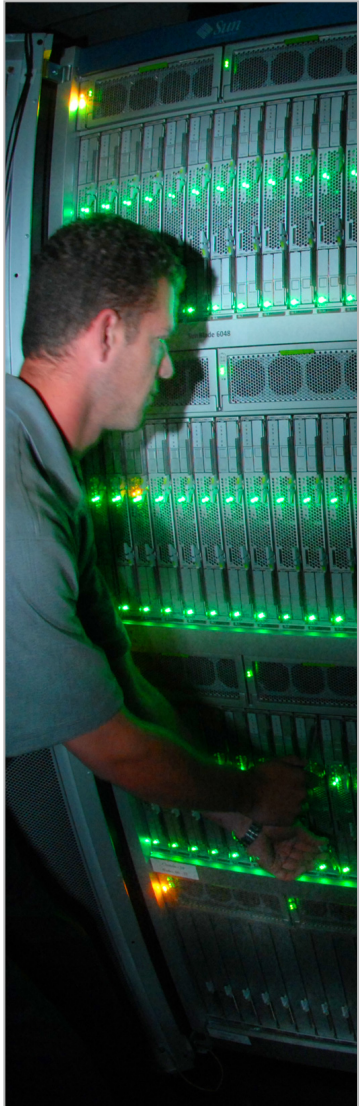
(AY2016/QTR 4)



Students bring real-world experience to explore complex national security issues, and find solutions.

- Working shoulder to shoulder with world-class faculty creates a two-way learning environment
- The perfect balance of academics and research enhances the graduate educational experience
- Relevant education for today's warfighter





At the cutting edge of cybersecurity research and education.

-
- Multi-dimensional approach through research and dedicated curricula
 - SCIF and dedicated Cyber Battle Lab
 - Interdisciplinary core instruction from across campus
 - Degree programs for officers and senior enlisted cyber warriors



Leading the cultural change necessary to achieve energy independence.

- Four specialized degree programs focused on energy science, technology, policy
- Active, student-driven research in all aspects of energy, focused on warfighting first
- Dedicated Energy Academic Group
- Senior leader continuing education programs, campus lecture series, more





Advancing unmanned systems, from technical to tactical.

Consortium for Robotics and Unmanned Systems Education and Research (CRUSER)

- SECNAV initiated / Chartered by former Under Secretary Robert O. Work
- A cross-disciplinary community of experts in education and research across ALL areas of robotics and autonomous systems
- From technical to ethical, concept generation to experimentation



An intellectual and experimental hub for the **advancement of defense acquisition.**

- Multidisciplinary approach to all facets of cost, supply, performance mgmt. and more
- Led the creation of a body of scholarly knowledge in defense acquisition unparalleled in government or academia
- Consistent engagement from the Pentagon and fleet provides a continuous stream of relevant topics for research





Rapid deployment from field experimentation to fleet utilization.

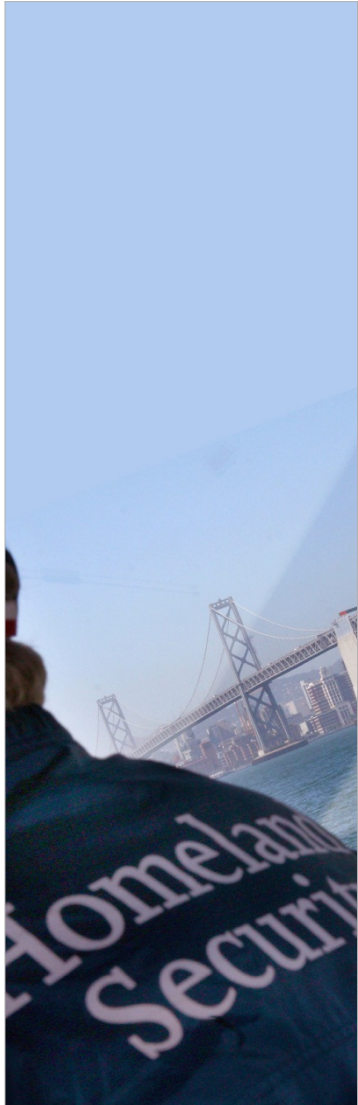
- Rapid technology integration from field to fleet and joint warfighter
- Diverse applications — broad DOD impact, homeland security integration, civil crossover
- Multi-disciplinary, campus-wide efforts
- Multi-institutional partnerships — expanding list of military, homeland security, industry and academic organizations participating



A national Center of Excellence in adaptive optics education and research.

- Three-Meter Segmented Mirror Telescope on campus
- Prototype reconnaissance satellite on site (model)
- Unique, experimental test-bed for dedicated faculty/student education and research
- Research to advance capabilities in optics, vibration control, and operability





Playing a lead role in the evolution of **securing our homeland.**

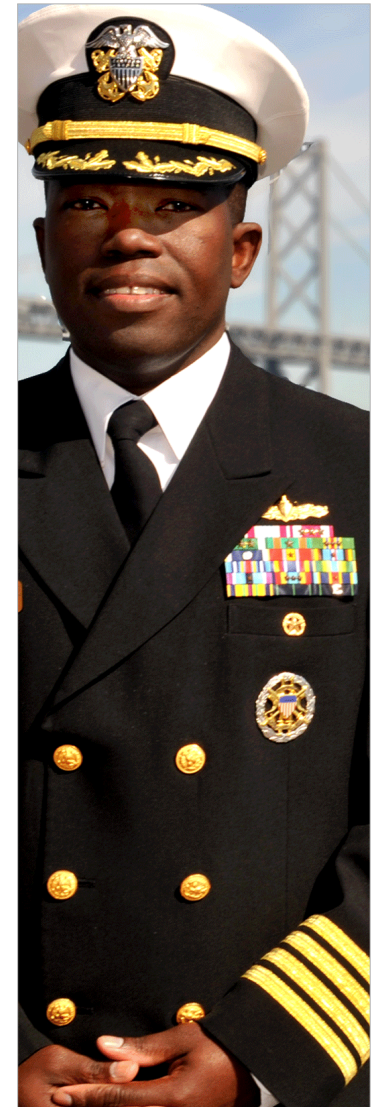
Center for Homeland Defense and Security

- The nation's first graduate degree in homeland security
- 720+ graduates to date
- Students come from Dept. Homeland Security, police, fire, EMS, military and several others at local, state, federal and tribal levels
- Hybrid in-residence and web delivery, mobile education, executive leaders program, self-study
- More than 280 executive education seminars reaching 10,800 officials, including 16 governors in 13 states and territories



With over 50,000 graduates, alumni range from **admirals to astronauts, service chiefs to chief executives.**

- Representing all U.S. military services, government agencies, defense industry leaders, and many more
- More than 6,000 int'l officers from 110+ countries
- 33% of all U.S. Navy active-duty Flag Officers
- About 24,000 resident and non-resident, non-degree participants annually
- Notable alumni include:
 - Adm. Mark Ferguson, USN, Former Commander, U.S. Naval Forces Europe – Africa
 - Adm. William McRaven, USN, Former Commander, U.S. Special Operations Command
 - Gen. Keith Alexander, USA, Former Director, National Security Agency
 - Adm. Mike Mullen, USN, Former Chairman, Joint Chiefs of Staff
 - Gen. Michael Hagee, USMC, Former Commandant
 - The Honorable Robert O. Work, Deputy Secretary of Defense





NPS is a world-class institution — a valued, strategic investment for the future of our nation.

- Education is the ultimate provider of transformative thought leaders
- Agile, unique programs focus on joint military applications like no other institution in the world
- Relevant research responds to the immediate and future needs of the national security enterprise
- Executive, distance and continuing education deliver programs regardless of when and where
- Building international capacity, developing defense cooperation with partners across the globe



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1 University Circle, Monterey, CA 93943

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