



NAVAL  
POSTGRADUATE  
SCHOOL



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# An Introduction to the NAVAL POSTGRADUATE SCHOOL



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

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## 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.

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- 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.

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- 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

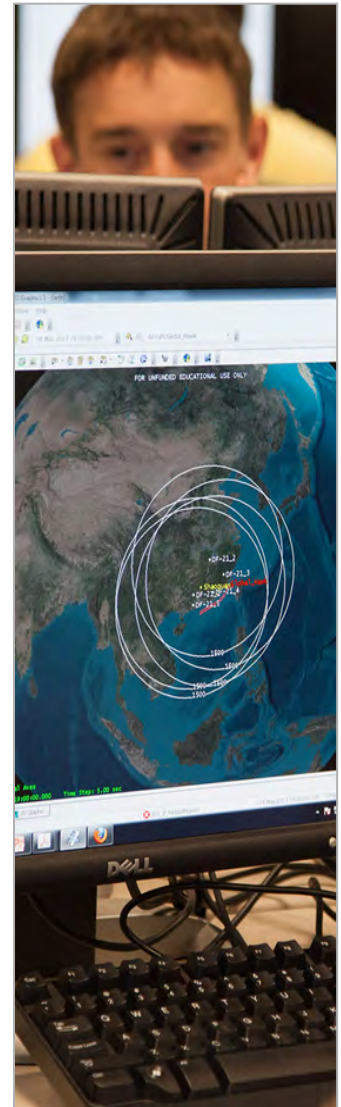




NPS' location creates **advantages** and **synergies** for a **dynamic** learning and research environment.

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- **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**.

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- 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**.

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

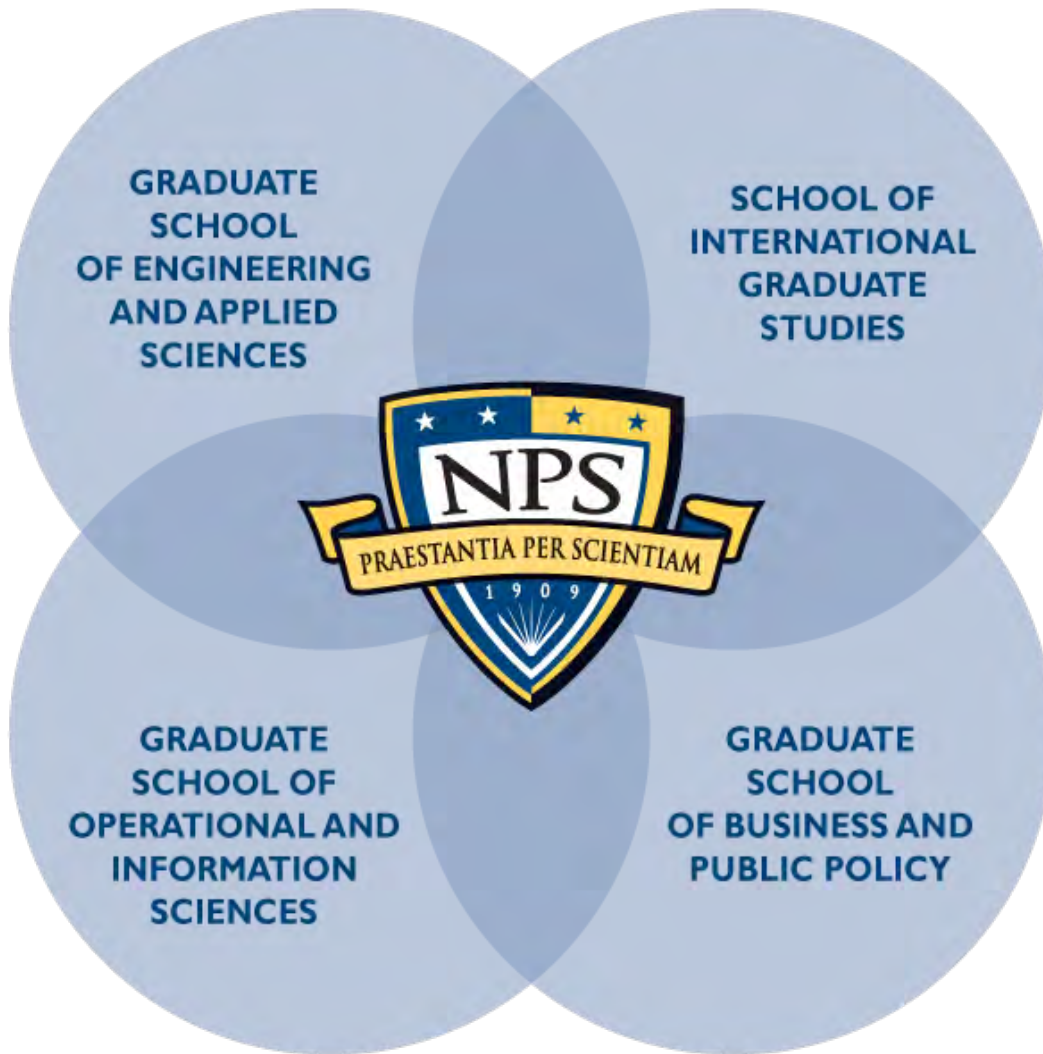
**ABET** Accreditation Board for Engineering  
and Technology

**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.

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## **Physics**

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

## **Electrical & Computer Engineering**

- Electronic Systems Engineering

## **Mechanical & Aero. 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**

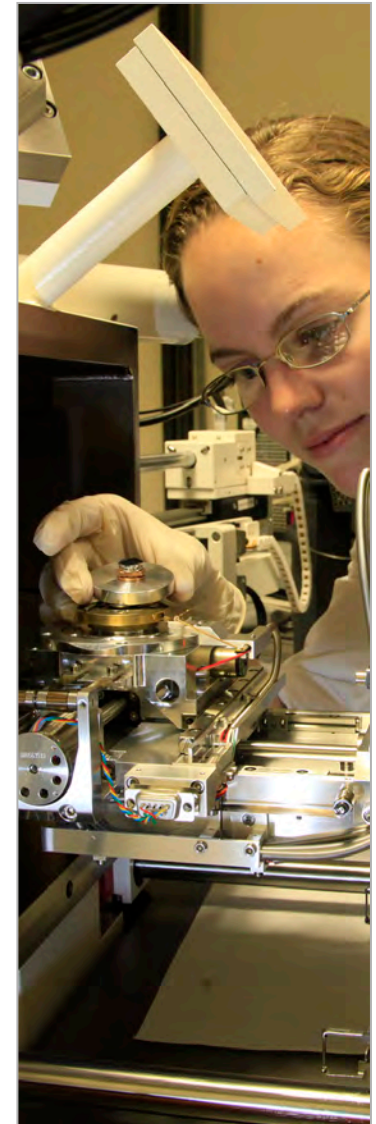
- Systems Engineering
- Systems Engineering Mgt.

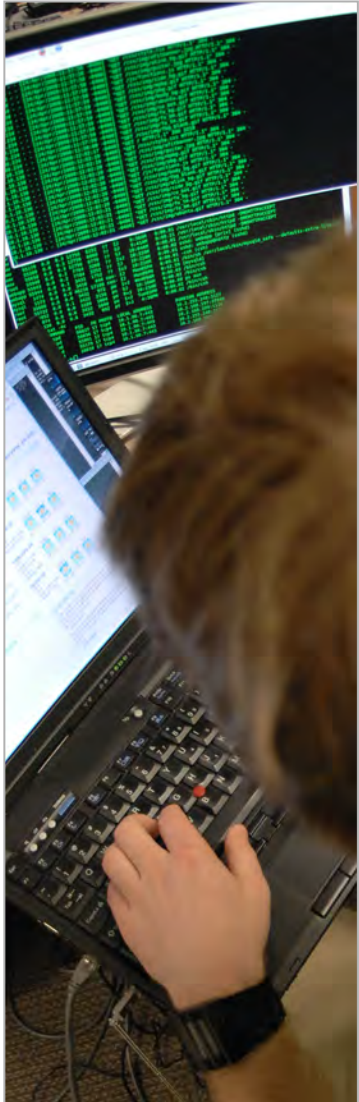
## **Undersea Warfare Group**

- 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.

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## 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.

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## **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.

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## **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 2017*

**Total Resident: 1,432**

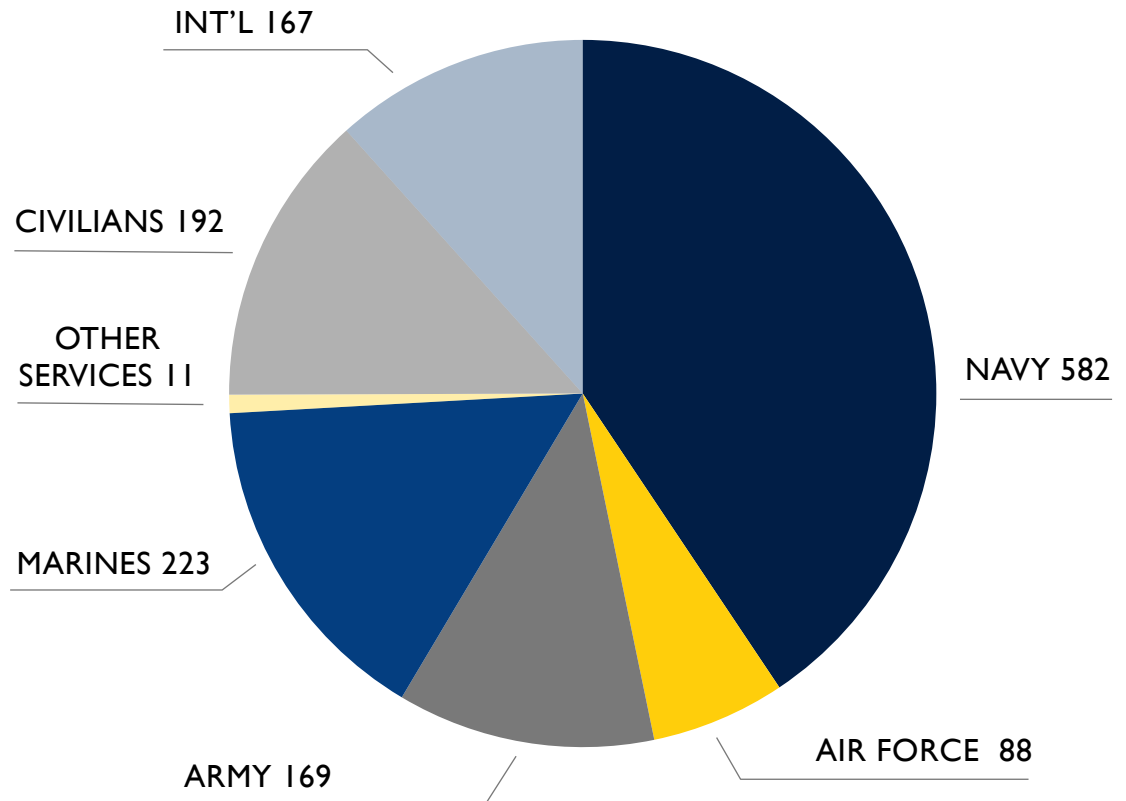
75% U.S. Military

12% International

13% Government  
Civilian

## Resident Degree Student Enrollment

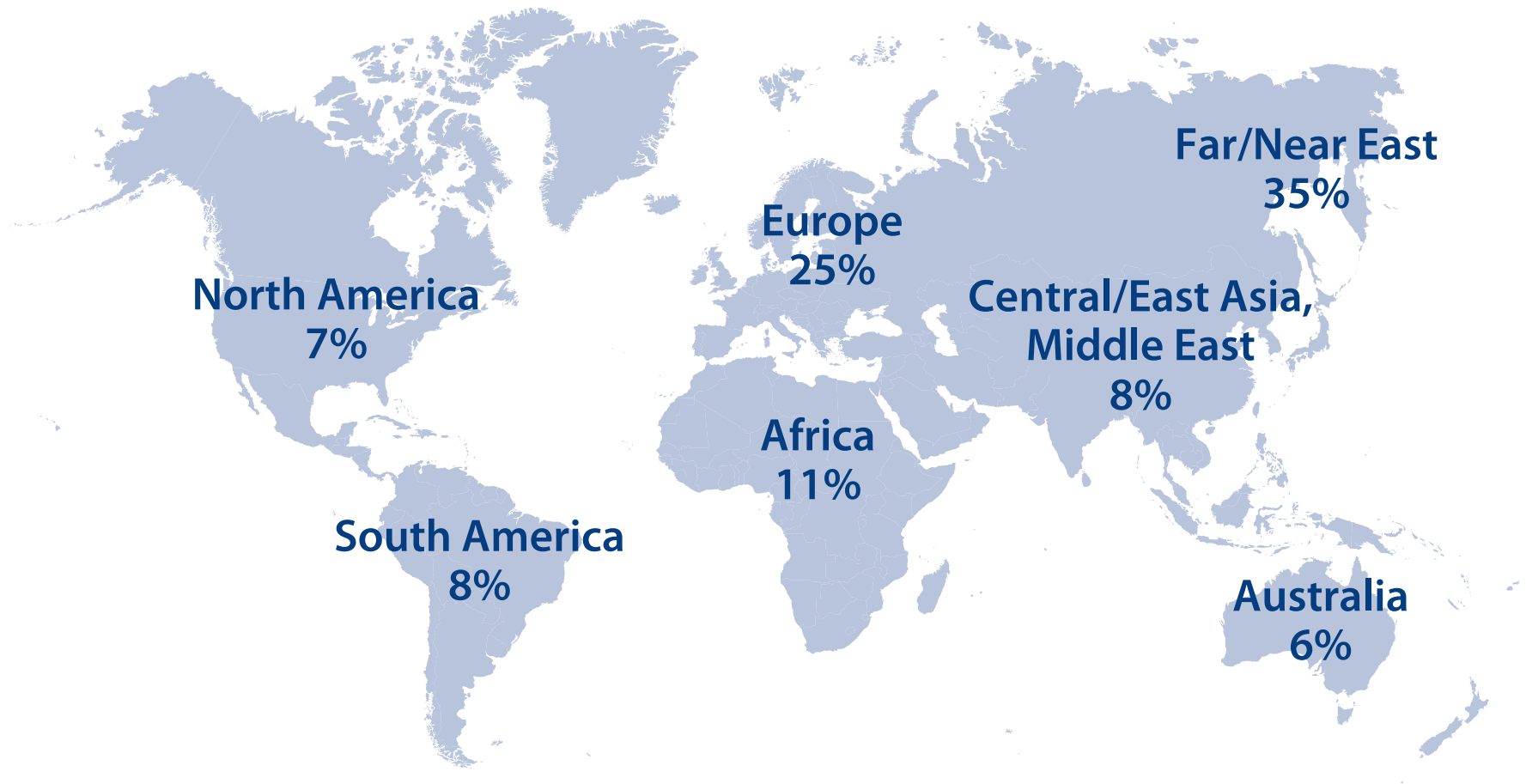
AY 2017 • Average on Board 1,432





# International Resident Students (by Region)

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# The world comes to our door...

## Caribbean, Central & South America (13)

|               |   |
|---------------|---|
| Argentina     | 1 |
| Brazil        | 6 |
| Colombia      | 1 |
| Dominican Rep | 1 |
| El Salvador   | 1 |
| Peru          | 3 |

## Africa (18)

|          |    |
|----------|----|
| Algeria  | 2  |
| Botswana | 1  |
| Cameroon | 1  |
| Mali     | 11 |
| Senegal  | 1  |
| Uganda   | 2  |

## Europe (39)

|             |   |
|-------------|---|
| Albania     | 1 |
| Azerbaijan  | 2 |
| Denmark     | 1 |
| Estonia     | 1 |
| Finland     | 1 |
| Georgia     | 4 |
| Germany     | 9 |
| Greece      | 5 |
| Italy       | 1 |
| Latvia      | 1 |
| Netherlands | 2 |
| Norway      | 2 |
| Romania     | 3 |
| Slovenia    | 1 |
| Sweden      | 2 |
| Switzerland | 1 |
| Ukraine     | 2 |

## Central/East Asia & Middle East (13)

|              |   |
|--------------|---|
| Bahrain      | 1 |
| Israel       | 1 |
| Lebanon      | 2 |
| Oman         | 1 |
| Pakistan     | 7 |
| Saudi Arabia | 1 |

## North America (11)

|        |   |
|--------|---|
| Canada | 6 |
| Mexico | 5 |

## Far/Near East & Australia (66)

|             |    |
|-------------|----|
| Australia   | 10 |
| Indonesia   | 2  |
| Japan       | 2  |
| Korea       | 10 |
| Malaysia    | 1  |
| Mongolia    | 2  |
| Nepal       | 2  |
| Philippines | 2  |
| Singapore   | 27 |
| Sri Lanka   | 3  |
| Taiwan      | 4  |
| Thailand    | 1  |

**Total Graduates:**  
**6,184 Officers from 117 Countries**





# Distance Learning (DL) Degree Students

*Average on Board  
AY 2017*

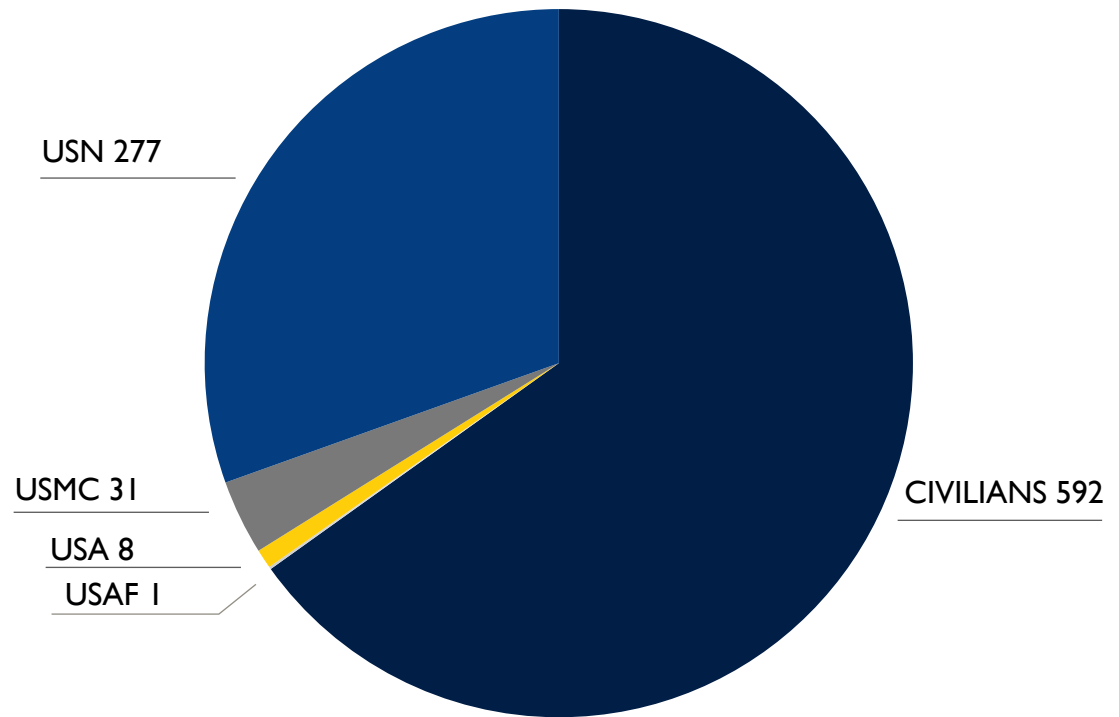
**Total DL Students: 909**

35% U.S. Military

65% U.S. Government  
Civilian

## DL Degree Student Enrollment

AY2017 • Average on Board 909





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

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- Active recruiting from top Ph.D. programs
- A robust mix of tenured faculty, lecturers, visiting professors, others
- Includes 5% military personnel with strong academic credentials and recent operational expertise
- Integrates teaching with research
- No teaching assistants
- Develops technologies eligible for patents

## FACULTY HIGHLIGHTS

### 612 CIVILIAN FACULTY

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

384 non tenure-track

### 43 MILITARY FACULTY

#### Top Sources of Faculty Graduate Degrees

|             |    |
|-------------|----|
| UC Berkeley | 22 |
| MIT         | 18 |
| Stanford    | 22 |
| USC         | 16 |
| MIIS        | 12 |

#### Academic Leaders

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

(AY2017/QTR 4)

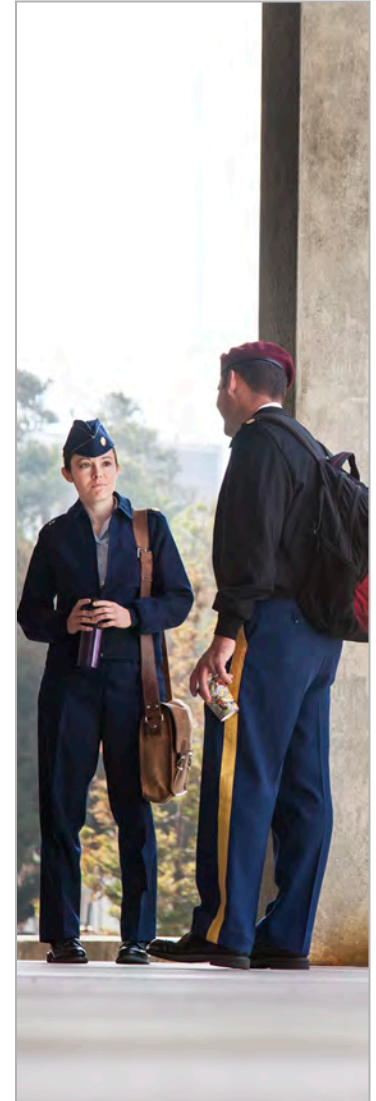


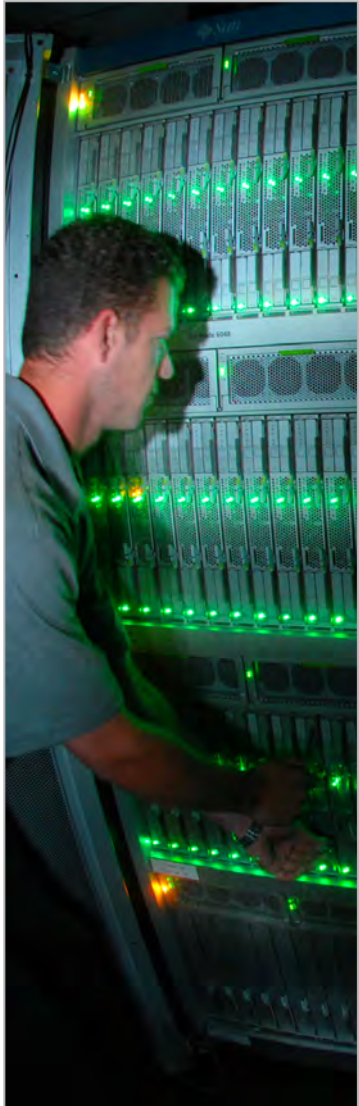


**Students** bring real-world experience to explore complex national security issues, and **find solutions.**

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- 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.

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- 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.

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- 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.

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## 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



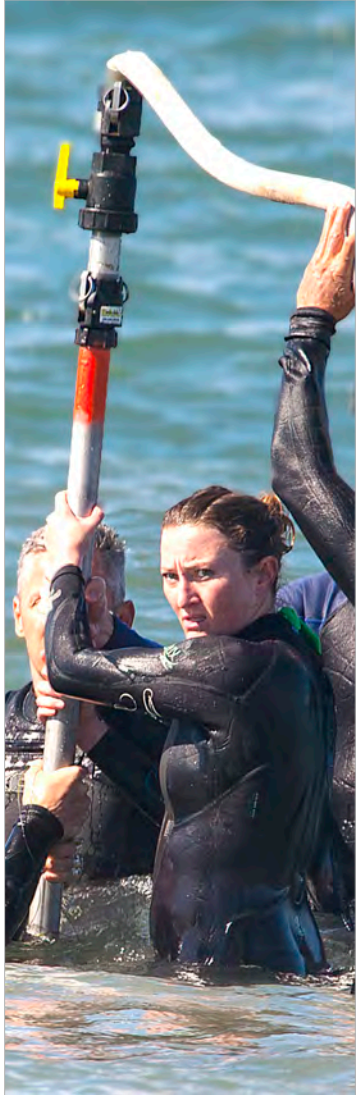
## An intellectual and experimental hub for the advancement of defense acquisition.

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- 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.

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- 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

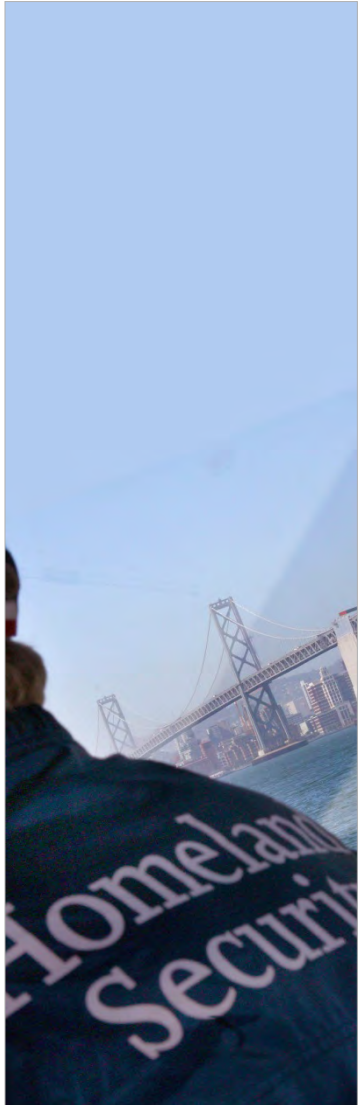


# A national Center of Excellence in adaptive optics education and research.

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- 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.**

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## Center for Homeland Defense and Security

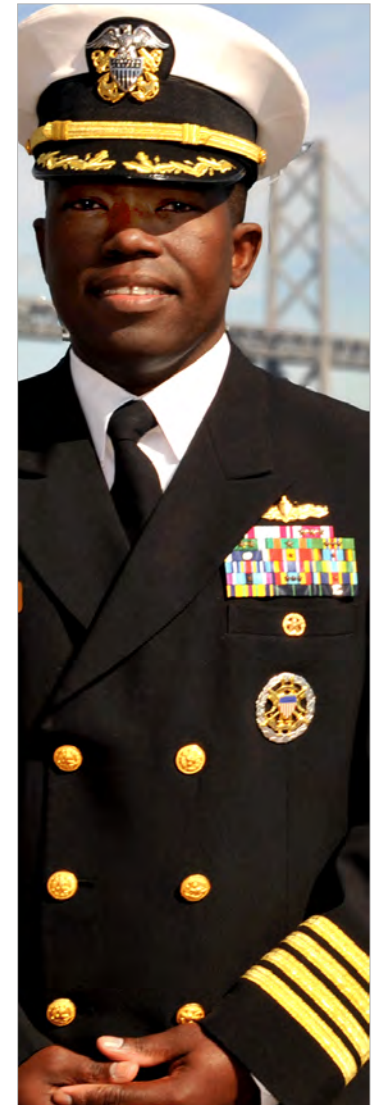
- After 9/11/01, NPS started the first homeland security master's degree, bringing together local, state, military, federal, tribal and territorial agencies across the nation.
- 377 Executive Education Seminars have been conducted for governors, mayors, and senior elected officials.
- CHDS has graduated 1,018 government officials from 2002-2017, some of whose thesis research has been the basis for legislation at local, state and federal levels.
- CHDS provides expertise and educational materials to over 1,000 agencies including military, law enforcement, DHS, fire service, public health, transportation, utilities, etc.



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

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- 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.

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- 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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