

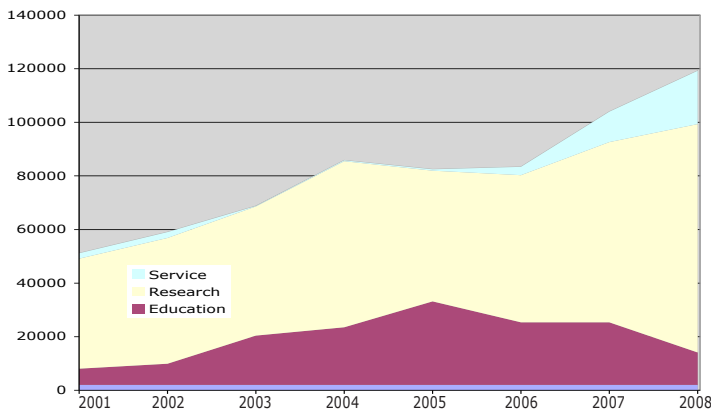
# SPONSORED PROGRAMS ANNUAL REPORT

Naval Postgraduate School • Fiscal Year 2008

## PROGRAM OVERVIEW

The Naval Postgraduate School has a strong sponsored program that has grown steadily to provide the faculty and staff required for a strong, viable graduate school. In FY08, NPS had available over \$176.1M in sponsored program funding. Total expenditures in FY08 exceeded \$117.2M.

**Sponsored Program Profile FY 2001-2008**



Sponsored programs (research, education, and services) are integral to the Naval Postgraduate School (NPS) mission. The research program supports graduate education by providing militarily relevant thesis topics that address issues from the current needs of the Fleet and Joint Forces to the science and technology required to sustain long-term superiority of the Navy/DoD. Research varies from the very fundamental to the very applied, at all levels of classification. Sponsored research includes:

- Basic and Applied Research
- Individual and Interdisciplinary Group Projects
- Fleet Support
- Cooperative Research and Development Agreements

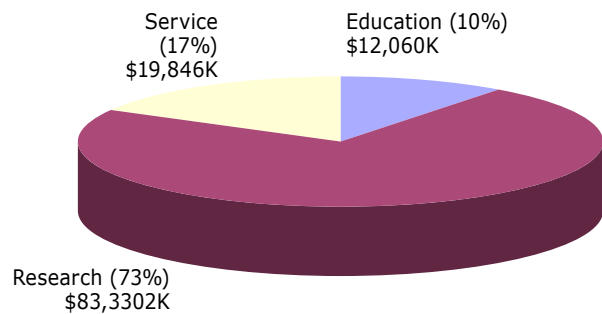
Integrated graduate education and research in space systems, total-ship systems engineering, combat systems, systems engineering and homeland security and defense, supplemented by off-campus graduate and certificate programs and short courses, are a few offerings of the sponsored education program.

## SPONSORED PROGRAM EXPENDITURES

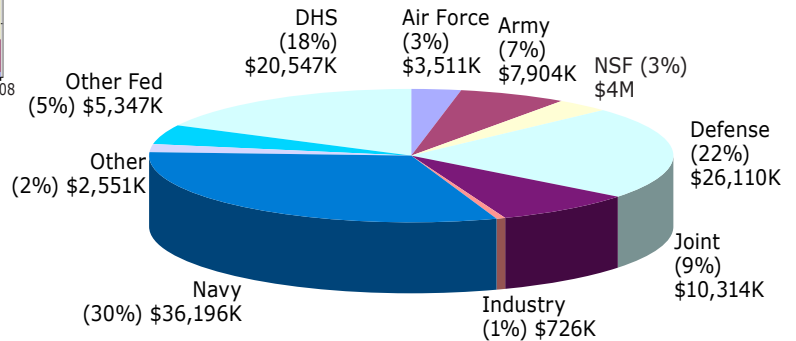
**1 October 2007 - 30 September 2008**

Total Expenditures: \$117.2M

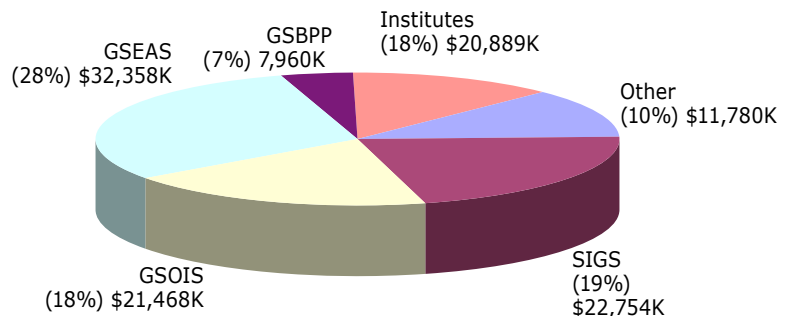
### By Type of Activity



### By Sponsor



### By NPS Organization



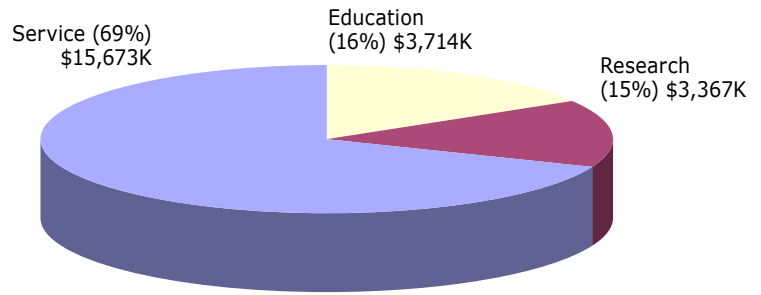
# SCHOOL OF INTERNATIONAL GRADUATE STUDIES

SIGS provides research and high-quality graduate education focused on security studies, international relations, regional security, area studies, international political economics and U.S. security policy. Programs identify and address security challenges, develop civilian and military interagency alliances, and strengthen multilateral and bilateral defense cooperation between the U.S. and other nations.

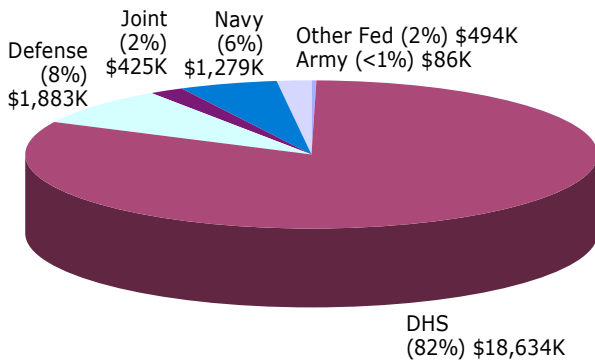
SIGS is organized as the Department of National Security Affairs, Defense Resources Management Institute, and Center for Civil-Military Relations. Statistics are for National Security Affairs and Defense Resources Management Institute only.

**Total Expenditures: \$22,754K**

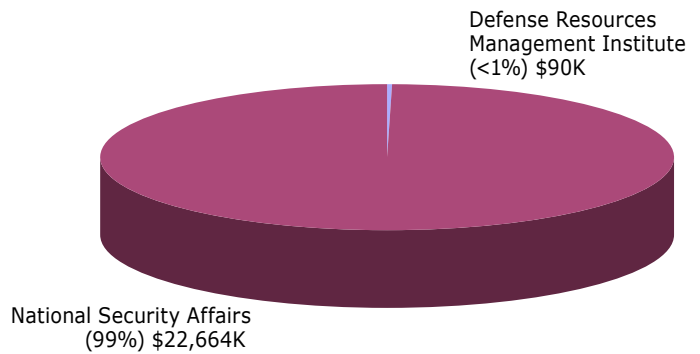
By Type of Activity \_\_\_\_\_



By Sponsor \_\_\_\_\_



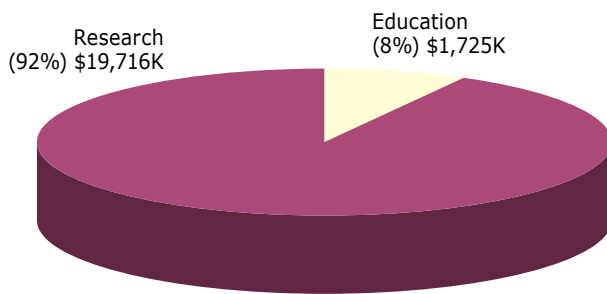
By Department \_\_\_\_\_



# GRADUATE SCHOOL OF OPERATIONAL AND INFORMATION SCIENCES

**Total Expenditures: \$21,467K**

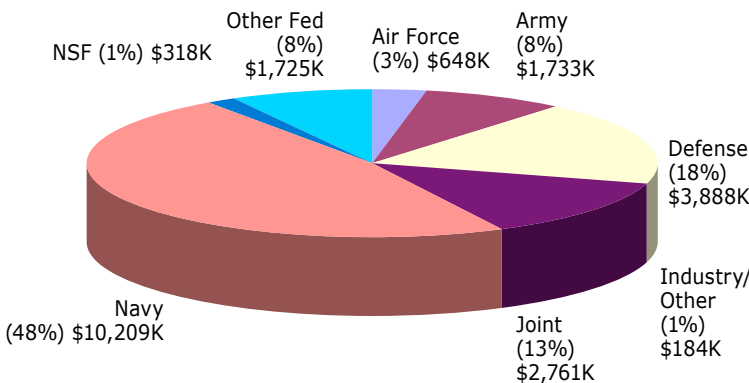
By Type of Activity \_\_\_\_\_



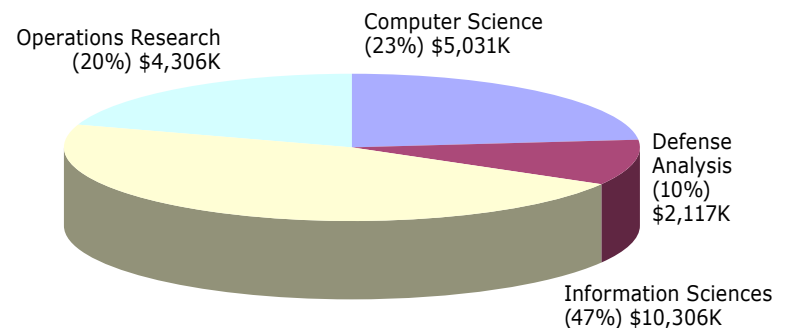
GSOIS includes graduate resident programs consisting of sixteen technical curricula and awards master of science and Ph.D. degrees across four academic departments. In response to the needs of naval and military customers, graduate-level education and cutting-edge research are focused in four non-traditional knowledge domains: information science and technology; military computer science; military operations analysis and research; and special operations and related defense analyses.

The emphasis of sponsored activities is on mathematical, scientific, and technical skills needed to understand current advances and foster improvement in military systems and operations, integration of subject matter contained in classical academic disciplines in militarily relevant ways, and subject matter suited to the corporate university's military customer.

By Sponsor \_\_\_\_\_



By Department \_\_\_\_\_

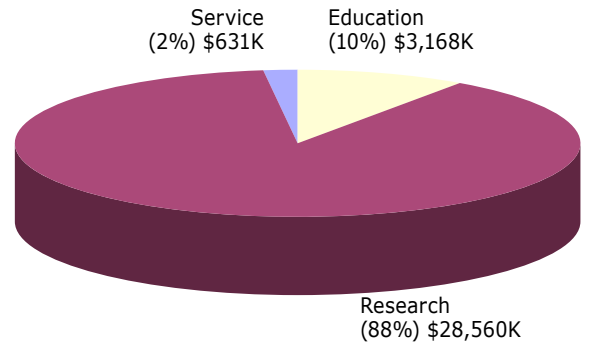


# GRADUATE SCHOOL OF ENGINEERING AND APPLIED SCIENCES

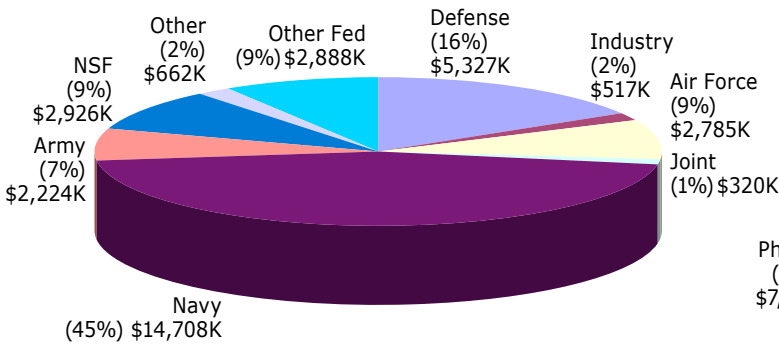
GSEAS provides education leading to the master of science, engineer, doctor of philosophy, and doctor of engineering degrees and contains seven technical academic departments (applied mathematics, electrical and computer engineering, mechanical and astronautical engineering, meteorology, physics, oceanography, systems engineering) and one interdisciplinary academic group (space systems). These entities feature world-class faculty and offer degree programs tailored to the the Navy and defense community, at the same time providing the technical foundation for student theses and interdisciplinary projects of faculty and students. Research centers and unique laboratory facilities (e.g., for free-electron lasers, spacecraft research and design, remote sensing, rockets and combustion, signal enhancement, ocean acoustics, interactive digital environment analysis, secure space-systems research, secure computer networks, and directed energy) add rigor to the resident academic and sponsored programs.

**Total Expenditures: \$32,358K**

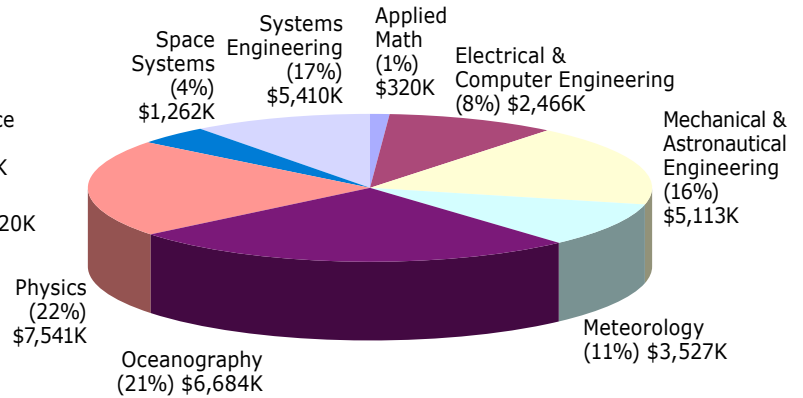
By Type of Activity \_\_\_\_\_



By Sponsor \_\_\_\_\_



By Department \_\_\_\_\_



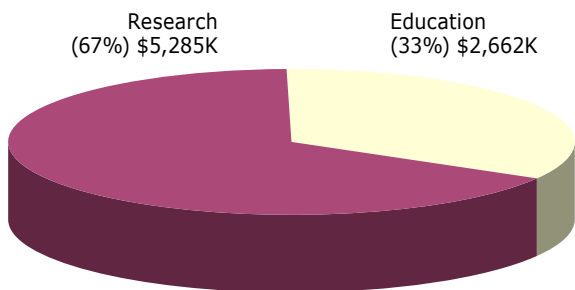
# GRADUATE SCHOOL OF BUSINESS AND PUBLIC POLICY

GSBPP offers a unique residential defense-focused MBA program, plus master's degrees in five other DoD-relevant areas. Faculty research is an important component of the school and strives to support military decision making, problem solving, and policy setting; improve administrative processes and organizational effectiveness; contribute knowledge to academic disciplines; and advance the mission of graduate education. The research program is integrated

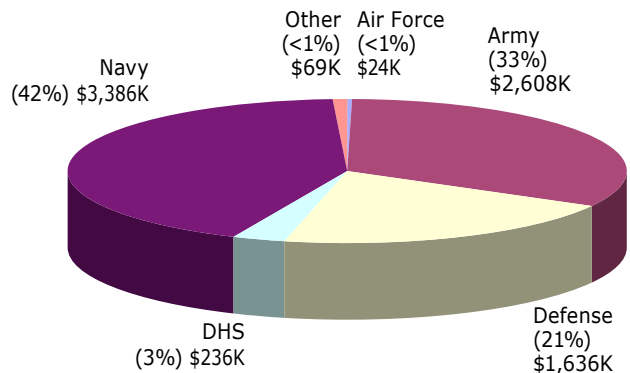
to the greatest possible extent with the educational process. Students are encouraged to participate in faculty projects, and faculty research results are typically incorporated in classroom instruction. Topics and issues can be grouped into five broad functional areas: acquisition and contracting; budgeting and financial management; logistics and transportation; manpower-systems analysis; and policy formulation, analysis, and management.

**Total Expenditures: \$7,960K**

By Type of Activity \_\_\_\_\_



By Sponsor \_\_\_\_\_



# RESEARCH AND EDUCATION INSTITUTES AND CENTERS

NPS's research and education institutes apply interdisciplinary investigation to military challenges, offering or facilitating degree programs, executive and continuing education, student contact with senior naval leadership, and student and faculty research from basic to applied. Twenty-plus research centers, reporting to the Dean of Research, emphasize practical application.

The Wayne E. Meyer Institute of Systems Engineering supports research in combat effectiveness and US security. Topics include littoral undersea warfare, port security, ship-based ABM, littoral oceanography, attrition models for unmanned systems, deployable joint C&C, naval architecture, risk-informed decision making, impact-burial prediction, Chinese oceanography, technological surprise in nuclear physics, and MDA field-sensors.

The Cebrowski Institute for Innovation and Information Superiority sponsors cross-disciplinary investigation into ways that information processes and technologies, organizational development, and personal skill can strengthen stability, transitional operations, crisis response, warfighting, and defense.

The MOVES Institute investigates modeling, virtual environments, and simulation, with projects in 3D visual simulation, networked VE, computer-generated autonomy, computational cognition, human-performance engineering, immersive technologies, game-based simulation, and combat modeling and analysis.

The Center for Interdisciplinary Remotely Piloted Aircraft Studies (CIRPAS) provides manned aircraft, remotely piloted aircraft and ground radar for scientific research, test, and evaluation, especially atmospheric and oceanographic observation, payload integration, flight-safety reviews, logistics, and flight support.

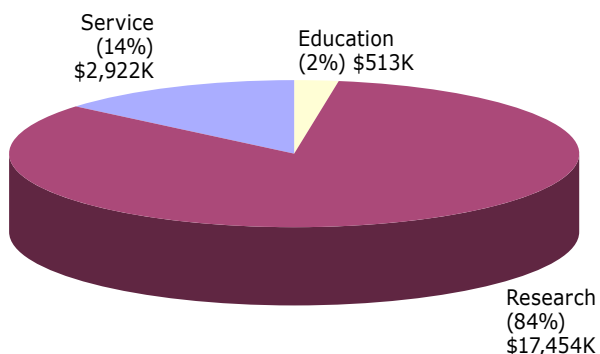
The Center for Defense Technology and Education for the Military Services (CDTEMS) provides research support for the Center for Post-Conflict Reconstruction, USSOCOM-NPS Cooperative Field Experimentation, Regional Security Education, and the Maritime Domain Protection project.

The National Security Institute (NSI) is a research and education collaboration among Lawrence Livermore National Laboratory, NPS, and UC Santa Barbara, focused on national and homeland security and offering a joint work-study doctoral program.

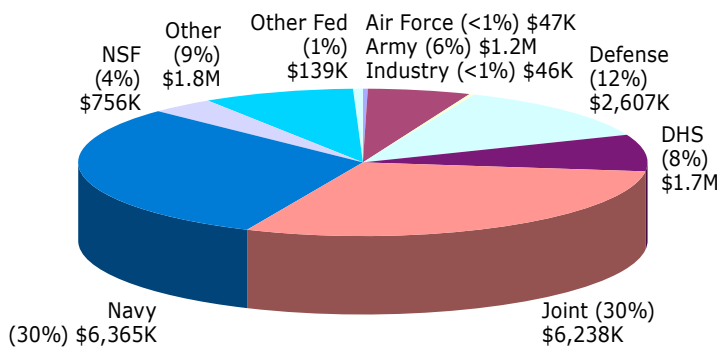
The Center for Asymmetric Warfare (CAW) predicts vulnerabilities in homeland defense and researches, develops, and tests protections. CAW is located at Pt. Mugu naval base.

## Total Expenditures: \$20,890K

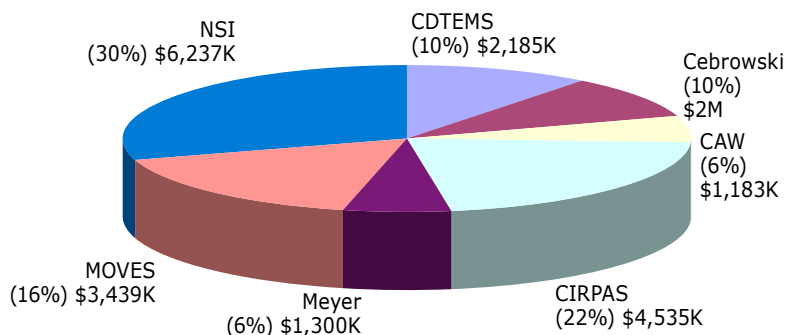
### By Type of Activity



### By Sponsor



### By Institute/Center



## ADDITIONAL RESEARCH FACTS IN FY08

- Thirty-three Cooperative Research and Development Agreements were executed: Advanced Concepts and Technologies International • Ahntech • AnaFocus • Audio Visual Innovations • California Space Education and Workforce Institute • Catcher Holdings • CIFF Technologies • Colorado State University • DataTek Applications • Goodrich Sensors and Integrated Systems • Simmonds Precision Products • ImSar • InfraGard • Insitu • L-1 Identity Solutions Companies • LGS Innovations • nGAP • Northrop Grumman • Persistent Systems • Remote Reality Corporation • Stanford University • Stratos Government Services • Swift Engineering • Port of Hueneme, CA • University of Delaware • Washington Security Group • Washington State University
- 924 degrees were conferred, including:
  - 15 Advanced Degrees (Ph.D., Engineer)
  - 169 Masters of Business Administration
  - 565 Masters of Science
  - 175 Masters of Arts
- One Space and Naval Warfare Systems Center fellowships was awarded to NPS students.
- Fourteen National Research Council Research Associates were on tenure at NPS.
- Eight visiting faculty members from the Engineer and Scientist Exchange program were hosted.