

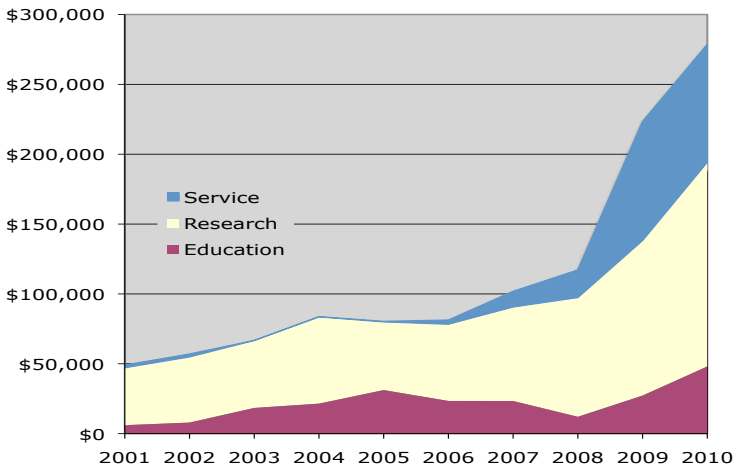
SPONSORED PROGRAMS ANNUAL REPORT

Naval Postgraduate School • Fiscal Year 2010

PROGRAM OVERVIEW

The Naval Postgraduate School (NPS) has a strong sponsored program that has grown steadily to provide the faculty and staff required for a strong, viable graduate school. In FY10, NPS had available over \$280.4M in sponsored program funding. Total expenditures in FY10 exceeded \$214.1M.

**Sponsored Program Profile FY 2001-2010
(Funds received)**



Sponsored programs (research, education, and services) are integral to the Naval Postgraduate School 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.

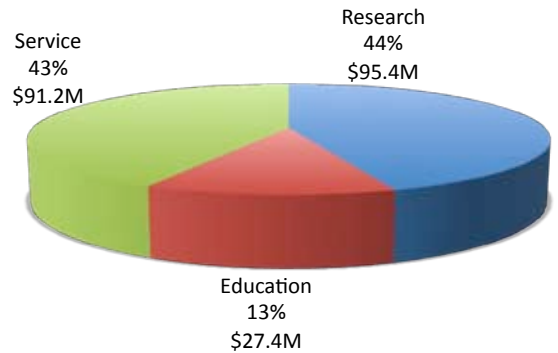
Service includes "work for others" and NPS management of DoD programs, e.g., the Science, Mathematics and Research for Transformation (SMART) Scholarship-for-Service Program sponsored by OSD.

SPONSORED PROGRAM EXPENDITURES

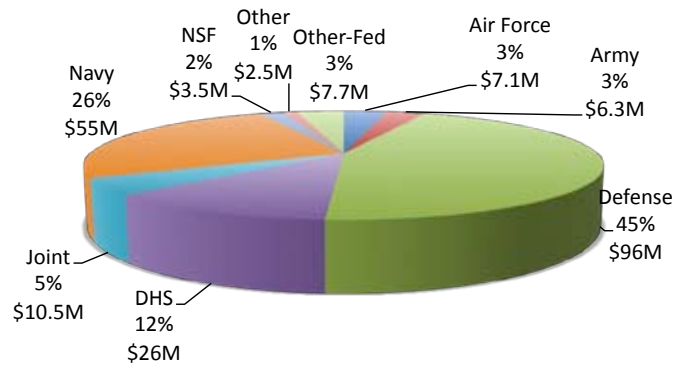
1 October 2009 - 30 September 2010

Total Expenditures: \$214.1M

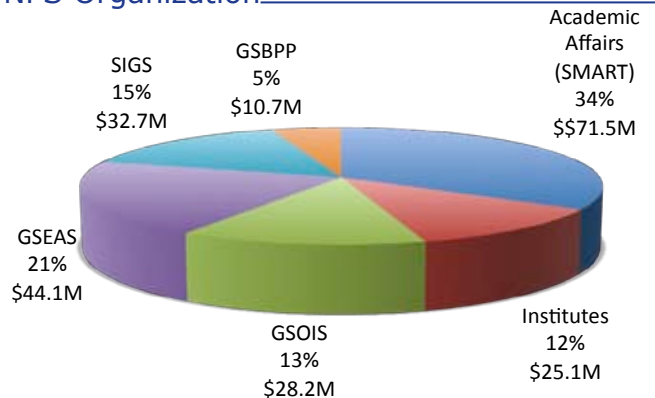
By Type of Activity



By Sponsor



By NPS Organization



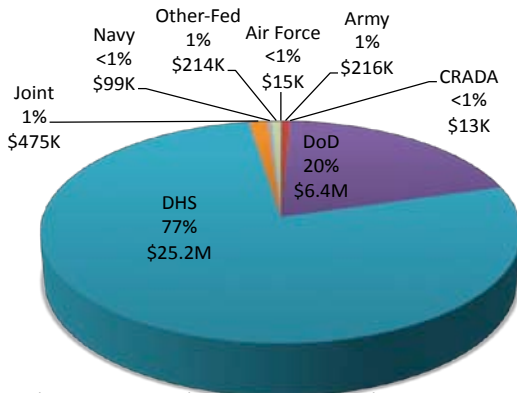
SCHOOL OF INTERNATIONAL GRADUATE STUDIES

The School of International Graduate Studies (SIGS) specializes in research and graduate education focused on security studies, international relations, regional security and area studies, international political economy, 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.

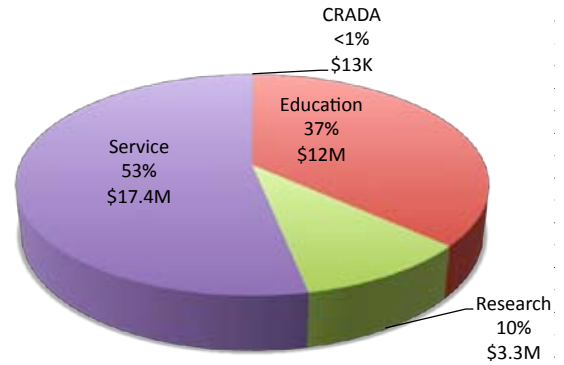
SIGS components include the department of National Security Affairs, Defense Resources Management Institute, and Center for Civil-Military Relations. Statistics shown are for National Security Affairs only, which includes the Center for Homeland Defense and Security.

Total Expenditures: \$32.7M

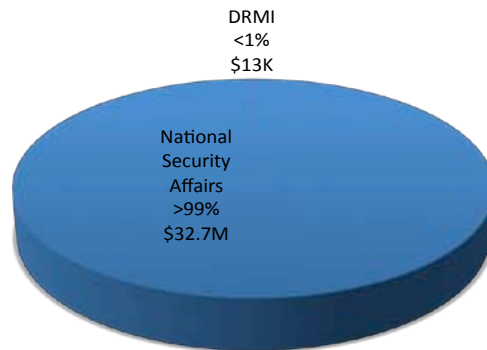
By Sponsor



By Type of Activity



By Department

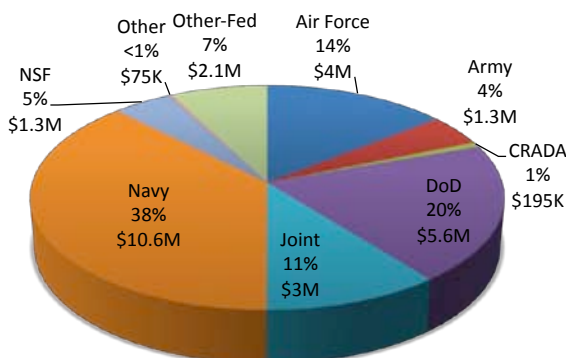


GRADUATE SCHOOL OF OPERATIONAL AND INFORMATION SCIENCES

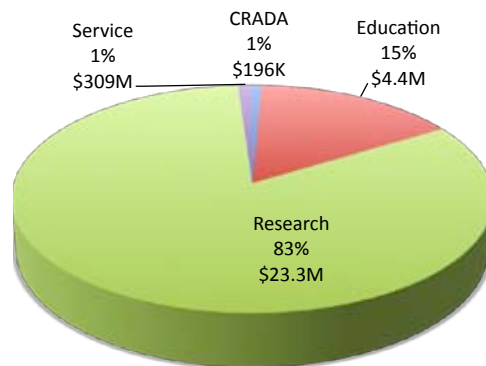
GSOIS resident programs consist of sixteen technical curricula and award master of science and Ph.D. degrees across four academic departments. Responding to the needs of naval and military customers, graduate education and research are focused in six military important domains: information science and technology; computer science; operations analysis and operational logistics; human-systems integration; systems-engineering analysis; and special operations and related defense analyses. The emphasis of sponsored research and studies activities is on the development, integration, and application of mathematical, scientific, and technical skills that contribute to advances and improvement in military systems and operations, and related areas of national defense and security.

Total Expenditures: \$28.2M

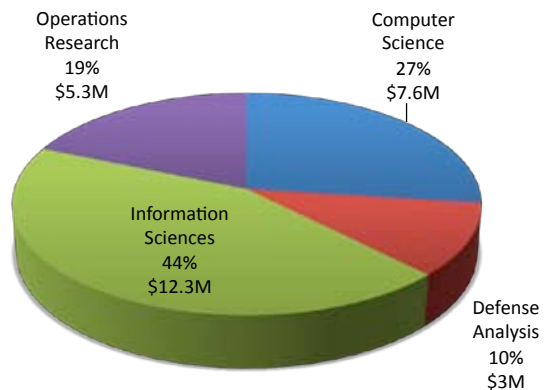
By Sponsor



By Type of Activity



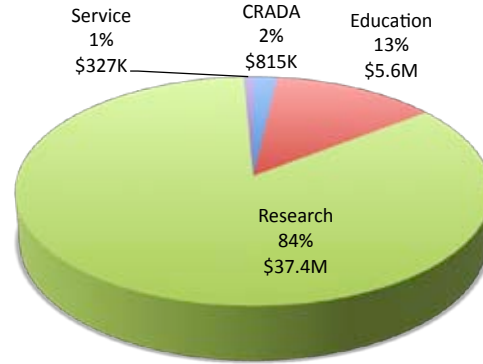
By Department



GRADUATE SCHOOL OF ENGINEERING AND APPLIED SCIENCES

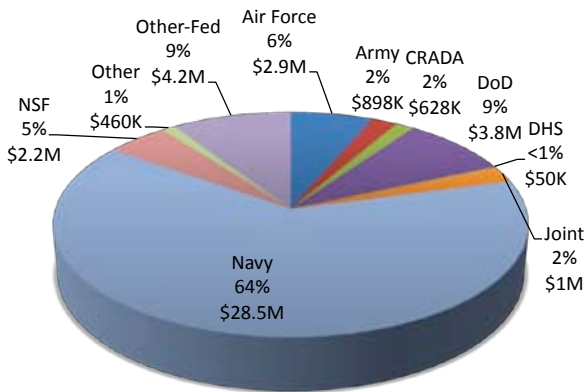
GSEAS education leads to the master of science, engineer, doctor of philosophy, and doctor of engineering degrees and contains seven technical academic departments (applied math, electrical and computer engineering, mechanical and aerospace engineering, meteorology, physics, oceanography, systems engineering) and two interdisciplinary academic groups (space systems and undersea warfare). These entities offer degree programs tailored to the Navy and defense community, while providing technical foundations for student theses and interdisciplinary faculty and student projects. Research centers and unique laboratory facilities (e.g., unmanned and autonomous vehicles, robotics, 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, cyber warfare and directed energy) add rigor to the resident academic and sponsored programs.

By Type of Activity

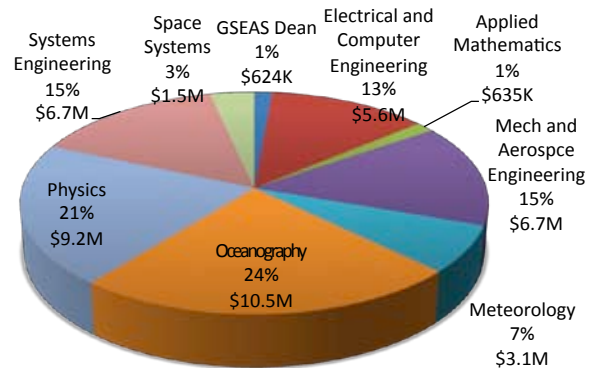


Total Expenditures: \$44.1M

By Sponsor



By Department



GRADUATE SCHOOL OF BUSINESS AND PUBLIC POLICY

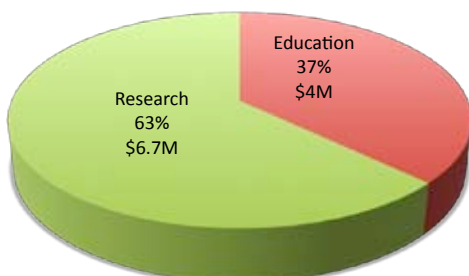
The Graduate School of Business and Public Policy (GSBPP) offers a unique residential defense-focused MBA program, plus master's degrees in five other DoD-relevant areas. Faculty research is an important component of the school and strives to support military decision making, problem solving, and policy 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 great-

est possible extent with the educational process. Students are encouraged to participate in faculty projects, and faculty research results are typically incorporated in classroom instruction.

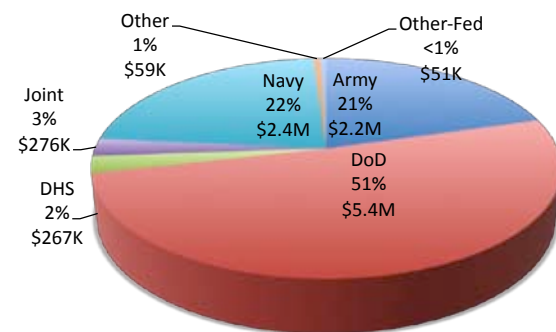
Topics and issues can be grouped into five broad functional areas: acquisition and contracting; budgeting and financial management; logistics and transportation; manpower-systems analysis; and policy formulation, analysis, and management.

Total Expenditures: \$10.7M

By Type of Activity



By Sponsor



RESEARCH AND EDUCATION INSTITUTES AND CENTERS

NPS's research and education institutes apply interdisciplinary research 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. Research centers emphasize practical application.

The Wayne E. Meyer Institute of Systems Engineering supports projects in warfare systems and technology research, including littoral undersea warfare, port security, ship-based ABM, littoral oceanography, unmanned-system attrition models, deployable joint C&C, naval architecture, risk-informed decision making, ordnance impact-burial prediction, Chinese oceanography, condensed-matter nuclear science, and energy-management systems.

The Cebrowski Institute is a hub of innovation for the information revolution in military and security affairs for the Navy, DoD and nation. CI helps generate ideas for information strategy and tactics and supports the information entrepreneurs who champion these ideas, promoting them in the Navy and DOD and working with leaders and networks to bring them into practice.

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 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) conducts coordinated multi-agency training and exercises and has an international country assessment program, technology test, evaluation, and integration program and an education program.

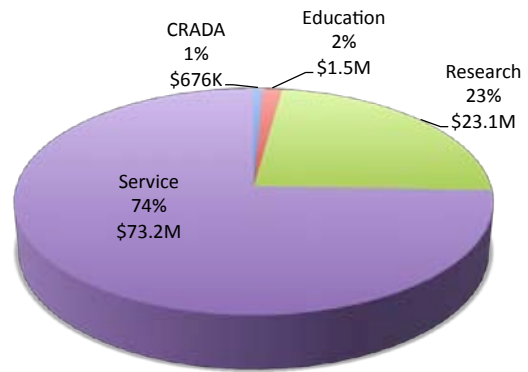
The Center for Interdisciplinary Remotely Piloted Aircraft

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.

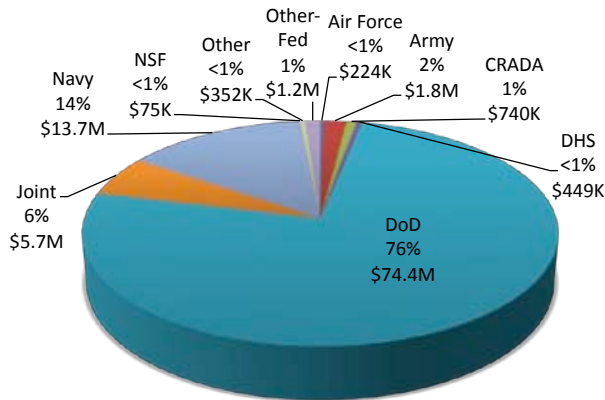
The USSOCOM-NPS Field Experimentation Cooperative explores SOF solutions for capability gaps, provides a venue to assess, develop, counter, and exploit emerging capabilities, and examines dual capabilities for homeland security, stabilization, reconstruction, and disaster/humanitarian assistance.

The SMART Scholarship-for-Service Program brings highly skilled technical labor into DoD facilities and agencies and enhances the expertise of the existing workforce. SMART offers scholarships to undergraduate, master's, and doctoral students with demonstrated ability and special aptitude.

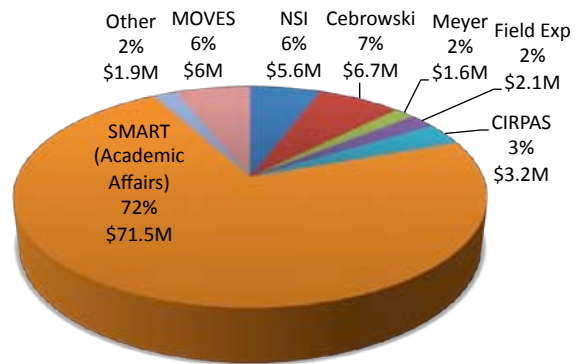
Total Expenditures: \$96.6M By Type of Activity



By Sponsor



By Institute/Center



ADDITIONAL RESEARCH FACTS IN FY10

- Seventeen Cooperative Research and Development Agreements were executed: University of Alaska Fairbanks • Association for Unmanned Vehicle Systems International • Arcturus UAV, LLC • Ramgen Power Systems, LLC • Infragard Los Angeles Members Alliance, Inc. • DRS Power & Control Technologies, Inc. • EADS North America, Inc. • University of Maryland • Hawaiya Technologies, Inc. • Aptima, Inc. • AT&T Labs, Inc. • Northrop Grumman Systems Corporation, Electronic Systems Sector • NextGen, Inc. • Raytheon Company • The Oxnard Harbor District, The Port of Hueneme • Johns Hopkins University Applied Physics Laboratory, LLC • Pacific Interface
- 1188 degrees were conferred, including:
 - 26 Advanced Degrees (Ph.D., Engineer)
 - 227 Masters of Business Administration
 - 637 Masters of Science
 - 263 Masters of Arts
- Three Space and Naval Warfare Systems Center Fellowships were awarded to NPS students.
- Twenty-one National Research Council Research Associates were on tenure at NPS.
- Six visiting faculty members from the Engineer and Scientist Exchange program were hosted.
- Five patents were issued, twenty-five patent applications were filed.