

***Sponsored Programs
Annual Report
Fiscal Year 2017***

VIMS | WILLIAM
& MARY
VIRGINIA INSTITUTE OF MARINE SCIENCE

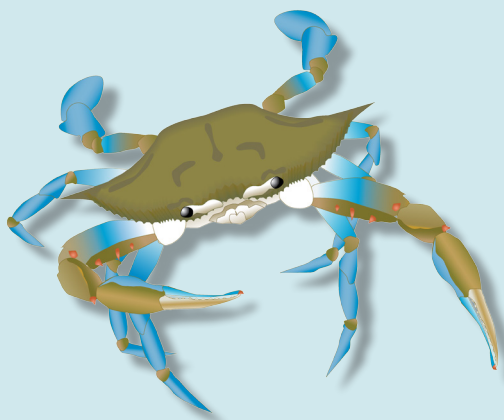
Fiscal year 2017 has been an exceptional year for the Virginia Institute of Marine Science (VIMS). Research expenditures totaled \$19.6 million, the highest total the Institute has reached since 2008. The total included \$15.4 million in expenditures from a variety of federal agencies, with NOAA continuing to be the Institute's largest funding agency.

The Office of Sponsored Programs is dedicated to partnering with faculty and staff as they compete for grants and contracts. The office provides support in funding searches, proposal preparation and submission, award negotiation and acceptance, post award accounting and administrative services, including financial reporting. The office strives to provide the highest quality of service while ensuring appropriate stewardship of sponsored funds.

During the fiscal year, the Institute had 320 active awards (totaling \$66.4 million), and a forty-eight percent success rate of funded proposals (232 proposals submitted and 112 awards received).

VIMS faculty and staff work collaboratively with federal, state, private and local agencies, and other institutions of higher education, partnering to ensure the Institution fulfills its three-part mission of research, education, and advisory service. This year's sponsored programs activity represents an ever expanding model of excellence, commitment and exceptional effort by our researchers. Thank you for your participation in research and dedication to the Institute.

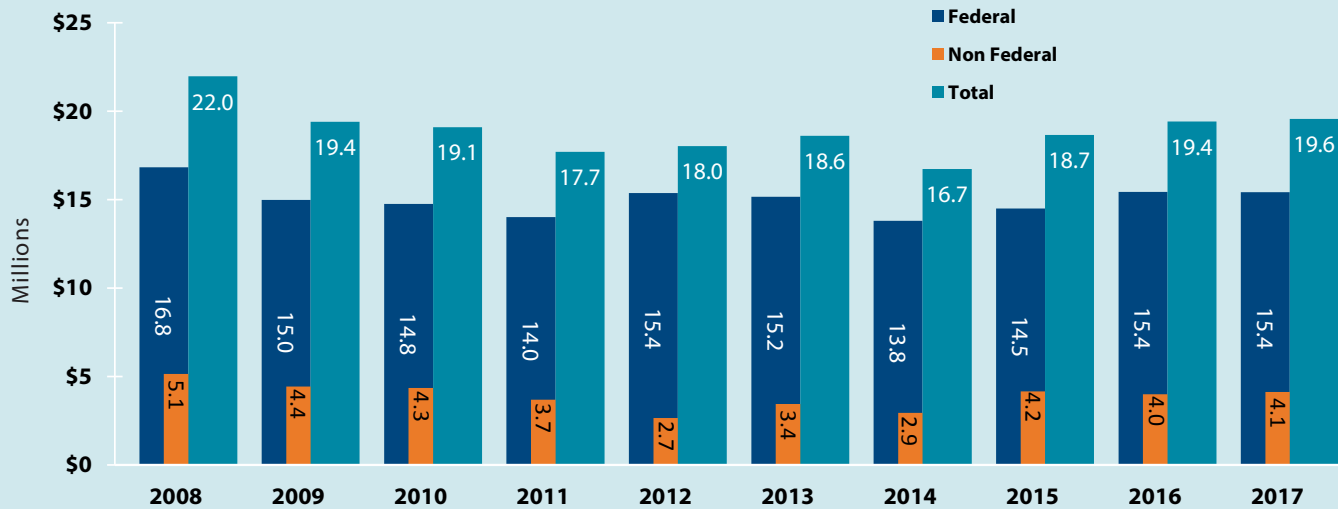
Connie Motley
Director of Sponsored Programs



Total Grant & Contract Expenditures, 2008-2017

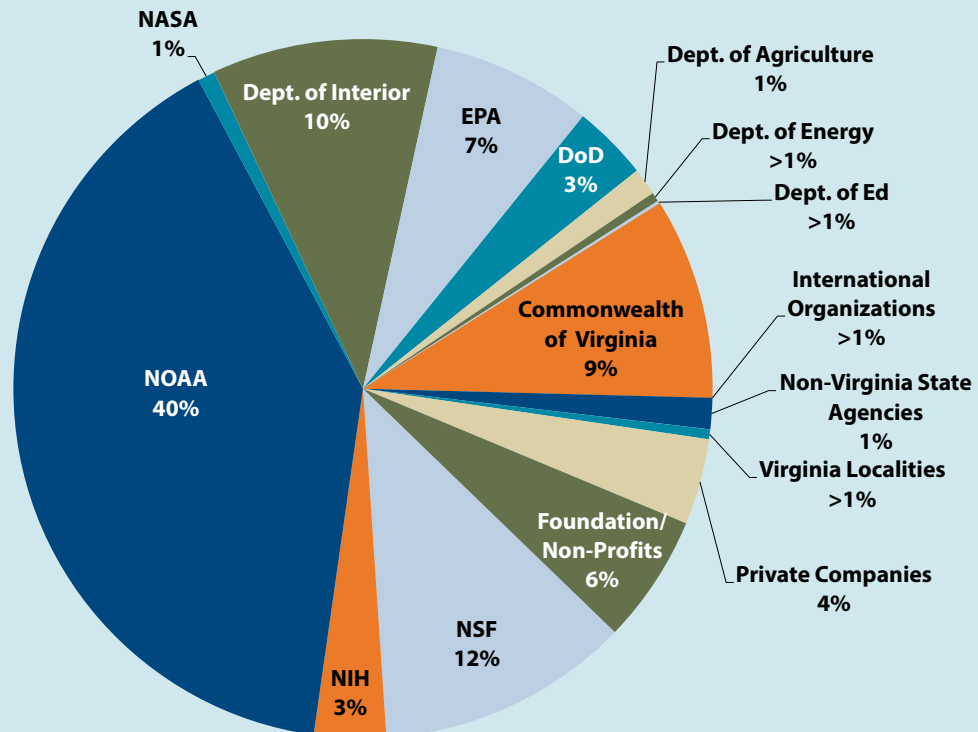
(Federal and Nonfederal)

Expenditures for fiscal year 2017 totaled \$19.6 million, with federal support leading the way at \$15.4 million.



Expenditures from all Funding Agencies - FY 2017

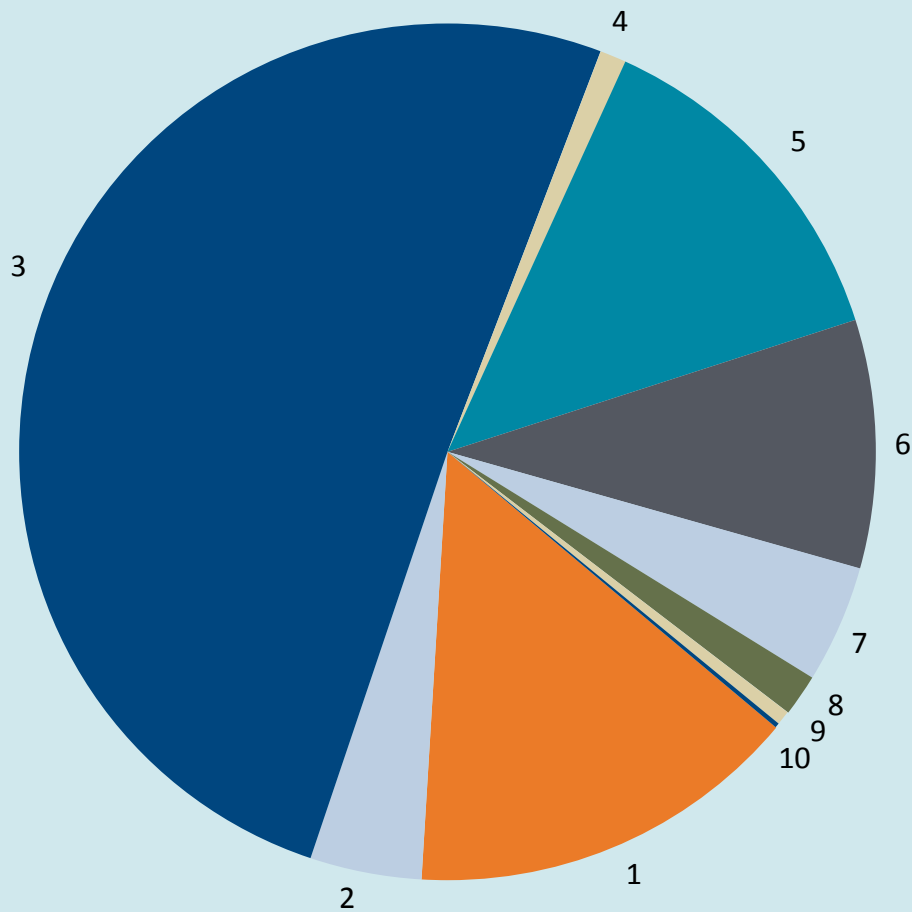
(Total Expenditures = \$19.6 million)



Expenditures from Federal Agencies – FY 2017

(Total Expenditures = \$15.4 million)

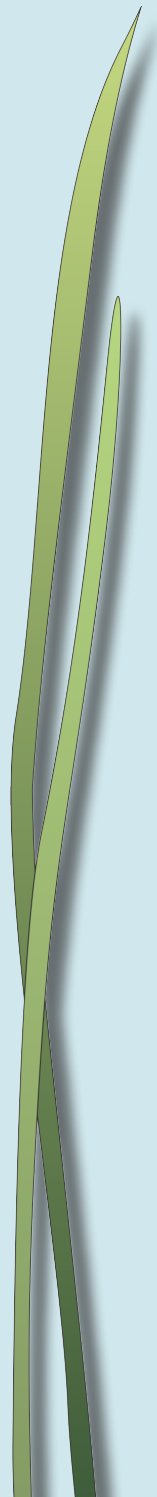
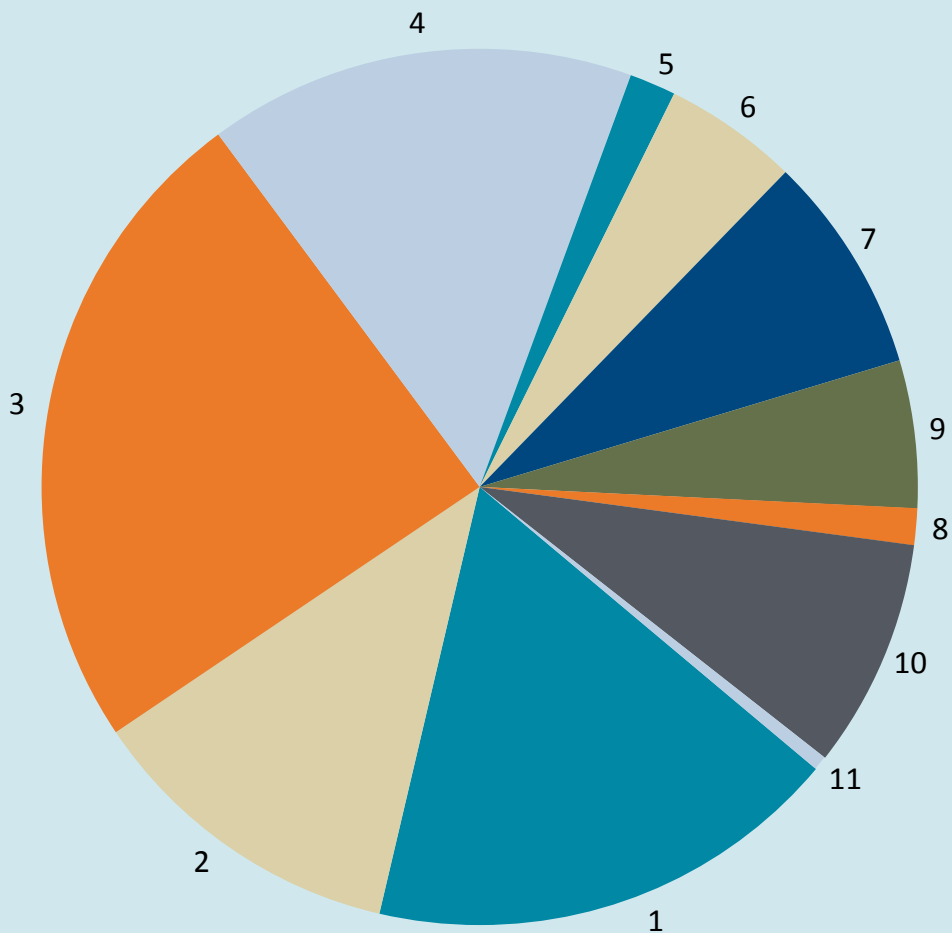
1	National Science Foundation	\$2,292,043
2	National Institutes of Health	\$649,402
3	National Oceanic and Atmospheric Administration	\$7,813,216
4	National Aeronautics and Space Administration	\$154,475
5	Department of Interior	\$2,038,387
6	Environmental Protection Agency	\$1,444,042
7	Department of Defense	\$683,766
8	Department of Agriculture	\$244,667
9	Department of Energy	\$82,619
10	Department of Education	\$26,777



Expenditures by Unit – FY 2017

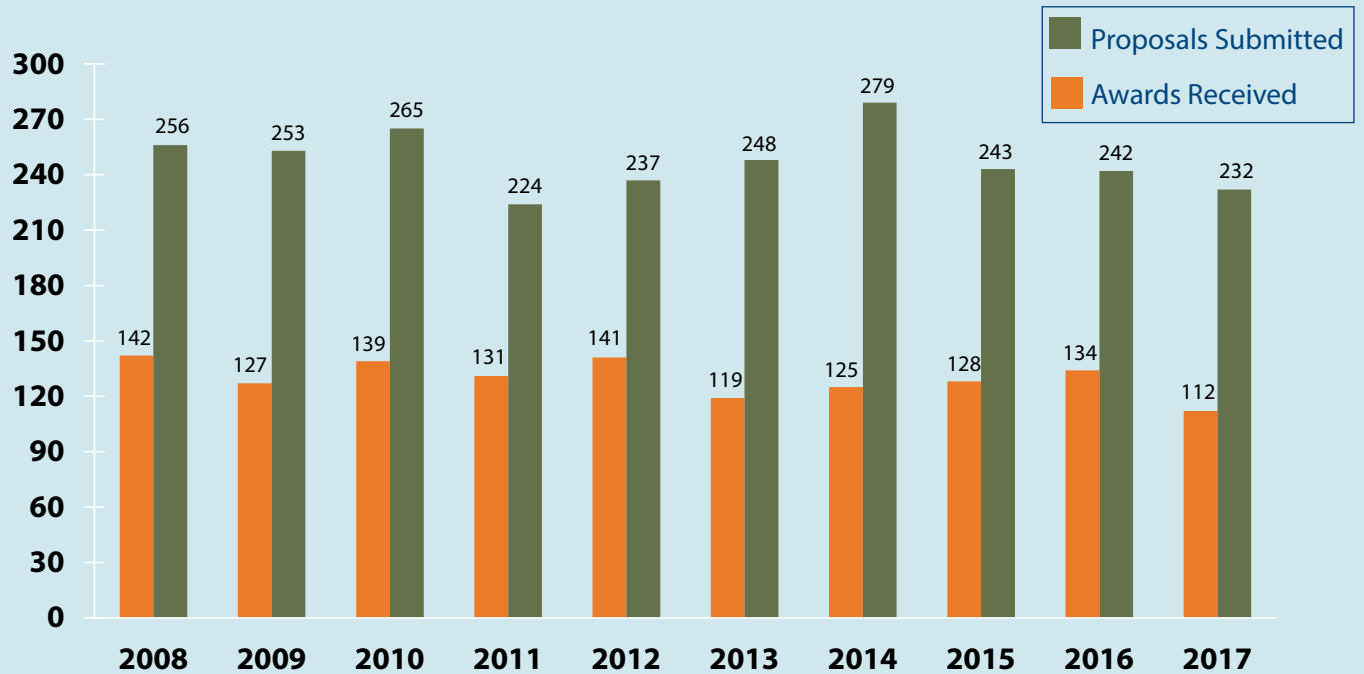
(Total Expenditures = \$19.6 million)

1	Biological Sciences	\$3,436,101
2	Aquatic Health Sciences	\$2,322,210
3	Fisheries Science	\$4,748,643
4	Physical Sciences	\$3,084,187
5	Aquaculture Genetics and Breeding Technology Center	\$334,011
6	Chesapeake Bay National Estuarine Research Reserve	\$969,719
7	Center for Coastal Resources Management	\$1,579,549
8	Eastern Shore Laboratory	\$263,142
9	Marine Advisory Services	\$1,062,086
10	Virginia Sea Grant	\$1,656,846
11	Recharge/Service Centers	\$101,630



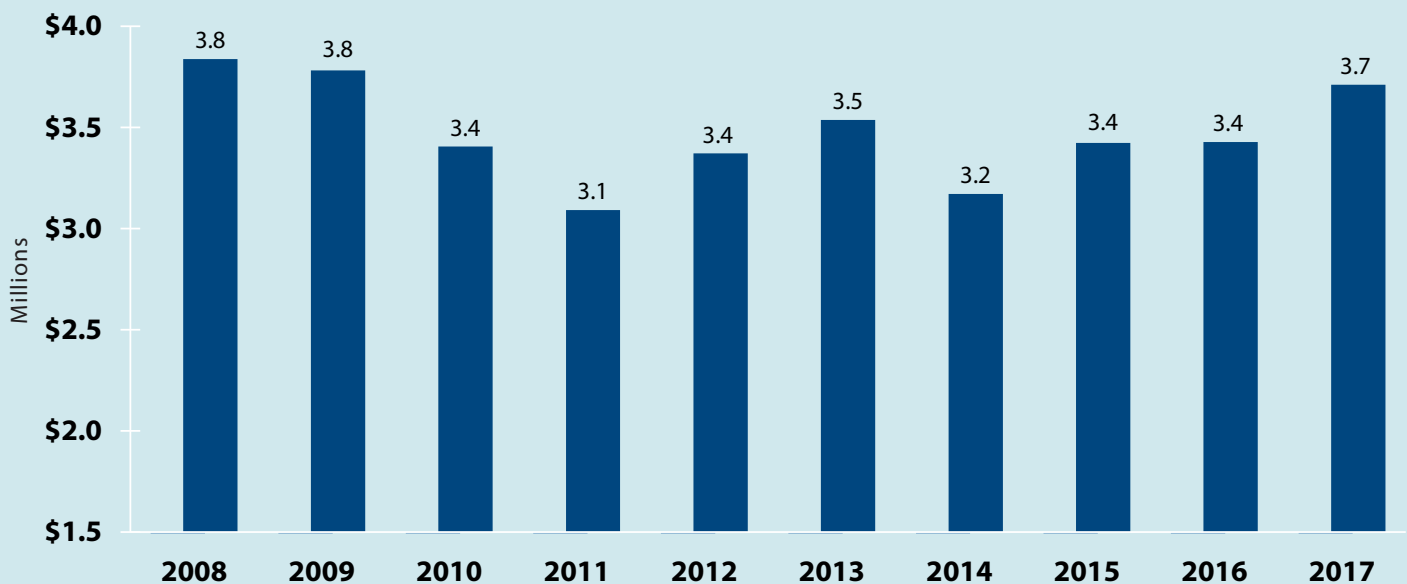
Grant & Contract Proposals Submitted vs. Awards Received*

FY 2008 - FY 2017



*Awards received equivalent to start date within the fiscal year time period.

Indirect Cost Recoveries, 2008-2017



A Sampling of Major Awards Received in 2016-17

The **National Science Foundation** funded the Center for Coastal Resources Management to examine the potential for achieving sustainability in coastal systems where natural resources are impacted by both climate change and human responses to climate change.

A **US Environmental Protection Agency** grant will continue the development and enhancement of the Virginia's online Virginia Wetland Condition Assessment Tool (WetCAT) and promote its widespread use to regulatory personnel, consultants, and the general public.

The **National Oceanic and Atmospheric Administration** awarded a grant for continued support of the Chesapeake Bay National Estuarine Research Reserve Combined Operations, Research, Monitoring, Education and Stewardship in Virginia.

The **National Oceanic and Atmospheric Administration** awarded funding to apply a trans-disciplinary approach to aid in the development of sustainable solutions for managing nutrient reduction in the face of a changing climate.

The **US Department of the Interior Fish and Wildlife Service** funded awards to support Fisheries Science for data collection and analysis of single and multispecies stock assessments in Chesapeake Bay: the Chesapeake Bay multispecies monitoring and assessment program (ChesMMAP); the evaluation of Striped Bass stocks in Virginia: Tagging and Monitoring; and monitoring the abundance of American Shad and River Herring in Virginia rivers.

The **National Science Foundation** supported research that will make an essential contribution to our understanding of coastal Southern Ocean CO₂ system variability by delivering new autonomous observations that will allow the full CO₂ system seasonality to be resolved.

The **National Science Foundation** provided support to examine the occurrence and importance of microbially-mediated ammonium oxidation reactions occurring under anoxic conditions in a subterranean estuary (STE).

The **National Science Foundation** supported work to better understand the rate of creatine cycling, the ecological importance of creatine as an N source, the identities of both creatine producing and consuming organisms in the marine environment, and the physiological context of creatine production.

The **US Department of Energy** provided support to develop a new tidal and estuary systems component in the MPAS-Ocean model (a collaborative model system that links atmosphere, ocean and other earth-system components for simulating regional climate and weather) to improve its skills and reduce uncertainties in coastal biogeochemistry simulation.

The **Maryland Department of the Environment** provided funding to develop Total Maximum Daily Load (TMDL) studies of Polychlorinated biphenyl (PCB) in Conowingo Pool and Lower Susquehanna River of the Chesapeake Bay.

The **National Oceanic and Atmospheric Administration** supported efforts using aquaculture methods to advance fishery restoration and commercial production of bay scallop (*Argopecten irradians*) on the Eastern Shore of Virginia.

The **National Oceanic and Atmospheric Administration** provided support to produce a biotoxin-centric perspective of what is required to ensure shellfish aquaculture sustainability within the Lower Chesapeake, from seed to market-size product.

The **National Science Foundation** continued its support for the Research Undergraduate (REU) Site: Coastal Marine Science Research Opportunities for Undergraduates at VIMS.

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