

OFFICE OF MULTIDISCIPLINARY ACTIVITIES (OMA)

\$40,640,000
+\$10,000,000 / 32.6%

OMA Funding

(Dollars in Millions)

	FY 2012		FY 2014 Request	Change Over	
	FY 2012 Actual	Enacted/ Annualized FY 2013 CR		FY 2012 Enacted Amount	Percent
Total, OMA	\$30.37	\$30.64	\$40.64	\$10.00	32.6%
Research	27.05	27.44	26.75	-0.69	-2.5%
CAREER	0.05	-	-	-	N/A
Centers Funding (total)	0.10	0.10	-	-0.10	-100.0%
Centers for Analysis & Synthesis	0.1	0.10	-	-0.10	-100.0%
Education	0.32	0.20	3.89	3.69	1845.0%
Infrastructure	3.00	3.00	10.00	7.00	233.3%
Research Resources	3.00	3.00	-	-3.00	-100.0%
Portfolio Analysis	-	-	10.00	10.00	N/A

Totals may not add due to rounding.

OMA enables and facilitates MPS support of novel, challenging, or complex projects of varying scale, in both research and education, which are not readily accommodated by traditional organizational structures and procedures. This is done primarily in partnership with MPS disciplinary divisions and is especially directed at activities by multi-investigator, multidisciplinary teams, as well as cross-NSF and interagency activities.

In general, approximately 54 percent of the OMA portfolio is available for new research grants and 46 percent is available for continuing grants.

In FY 2014, OMA will focus on research that emphasizes the mathematical and physical scientific foundations of sustainability, including issues that affect food and water security; fundamental science critical to the understanding, design, and development of new materials; basic research at the interface between the mathematical and physical sciences and the life sciences to provide insight into the molecular basis of life processes; computational and data-enabled science across the MPS divisions; multidisciplinary explorations into the control and manipulation of the behavior of quantum matter and the limitations of quantum information processing; basic research in optics and photonics; and team efforts aimed at the development of next-generation instrumentation to enable fundamental advances across a wide spectrum of disciplines. OMA also will provide leadership and support for MPS activities related to agency-wide efforts in INSPIRE and I-Corps.

MPS divisions have undertaken, or are engaged in, wide ranging reviews of their facilities portfolios. Of particular note are the AST Portfolio Review carried out by the MPS Advisory Committee (A/C), the ongoing MPS A/C study of the role of the Division of Materials Research in synchrotron science, and the National Research Council study of high magnetic field science, all of which are addressed under the Program Monitoring and Evaluation section previously described. OMA will invest \$10.0 million to enable responsible decisions regarding the components of the MPS facilities portfolio. This investment will support studies of possible environmental issues, stewardship transition costs, or partnership start-up costs.

FY 2014 Summary

All funding decreases/increases represent change over the FY 2012 Enacted level.

Research

- In FY 2014, OMA will focus on multidisciplinary research that addresses the key MPS and NSF-wide priorities of I-Corps, INSPIRE, SEES, CIF21, CEMMS, BioMaPS, clean energy, and optics and photonics, and neuroscience
- I-Corps (+\$2.30 million to a total of \$3.30 million): OMA will increase its funding for this cross-agency effort.
- INSPIRE (level at \$3.0 million): OMA will maintain its investment in this cross-agency effort.
- CIF21 (+\$250,000 to a total of \$250,000). OMA will continue to coordinate MPS' participation with BIO, CISE, and ENG, providing funding for Software Infrastructure for Sustained Innovation and Scientific Software Innovation Institutes.

Education

- Alliances for Graduate Education and the Professoriate (AGEP) research supplements (level at \$2.0 million): This is consistent with support that began in FY 2012.
- IGERT (+\$3.44 million to a total of \$3.44 million): All final funding increments for MPS awards in this program are being consolidated into OMA. IGERT will sunset in FY 2014 with the initiation of the NSF Research Traineeships (NRT) program.

Infrastructure

- Portfolio analysis (+\$10.0 million to a total of \$10.0 million): OMA will support responsible decision making regarding portfolio composition, including studies of possible environmental issues, stewardship transition costs, and partnership start-up costs.