OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING (OISE) **$68,430,000**

OISE Funding

(Dollars in Millions)

FY 2023 Base Plan[1]	FY 2024 (TBD)	FY 2025 Request	Change over FY 2023 Base Plan Amount	Percent
$60.43	-	$68.43	$8.00	11.7%

[1] For comparability with FY 2025, the FY 2023 levels do not include this organization's share of Mission Support Services that were funded through the R&RA and EDU directorates and offices.

About OISE

OISE is the focal point for NSF's international science and engineering activities and promotes an integrated Foundation-wide international engagement strategy. The Office manages and coordinates catalytic internationally-focused programs and advances international activities that offer opportunities for U.S. researchers through active engagement and outreach with international counterparts. This FY 2025 budget submission continues focus on three activities: (1) facilitating and supporting international teams and partnerships, (2) providing opportunities for the U.S. to shape the global science and engineering agenda, and (3) promoting the development of a globally engaged U.S. workforce.

In FY 2025, OISE will continue its investments in key priority areas like, building a resilient planet that includes climate science research, and innovations in critical and emerging technologies for national and economic security through investments in cross-directorate collaborative efforts. Moreover, OISE's proposed FY 2025 investments will continue to promote the advancement of the research enterprise, ensuring accessibility and inclusivity, and strengthening global leadership. Within the framework of OISE's FY 2025 Request, the Office endeavors to preserve investments in its unique programs while maintaining cooperative investments through cross- directorate activities in Administration and agency priority areas to enable innovative international connections not otherwise possible for U.S. researchers and students.

OISE FY 2025 Activities

In FY 2025, OISE will continue its commitment to the Global Centers (GC) activity, fostering larger-scale collaborative research on use-inspired themes aligned with grand societal challenges. Launched in FY 2023, the GC initiative was introduced through its inaugural solicitation, encouraging interdisciplinary and international teams to address global challenges, with a particular focus on climate and clean energy technology research. In FY 2024, the GC solicitation will focus on bioeconomy research. This multi-lateral program encourages international research teams to seek additional partners from multiple sectors in the U.S. and abroad to leverage financial contributions and augment research capabilities. The GCs facilitate and advance the research, education and development of a globally-engaged workforce to support research to address complex and multi-dimensional societal challenges.

In FY 2025, OISE will continue its support for the Accelerating Research through International

Networks (AccelNet) program. The goals of AccelNet are to accelerate the process of scientific discovery and prepare the next generation of U.S. researchers for multi-team international collaborations. AccelNet supports strategic linkages among U.S. research networks and complementary networks abroad (i.e., network of networks) to leverage research and educational resources to tackle grand scientific challenges aligned with Administration and agency priorities and that require significant coordinated international efforts. The program seeks to foster high-impact science and engineering by providing opportunities to create new collaborations and new combinations of resources and ideas among linked global networks. Each AccelNet award will build a network of networks across international and interdisciplinary boundaries. AccelNet will provide the funding to connect U.S. research networks with their international counterpart networks. These efforts will ensure the United States has access to the best ideas, people, and facilities, wherever they may be.

Continuing into FY 2025, OISE remains dedicated to providing U.S. STEM undergraduate and graduate students with opportunities for international research experiences through the International Research Experiences for Students (IRES) program. The program's overarching goal is to fortify U.S. leadership in STEM fields by nurturing the next generation of STEM leaders. IRES actively promotes the development of a diverse, globally-engaged U.S. science and engineering workforce by facilitating student engagement in international research across NSF-funded disciplines.

The Global Venture Fund (GVF) resources new awards and supplements that include international collaborations, as well as projects which broaden participation by lowering barriers to international research. GVF funding augments programs resourced by the Research and Education Directorates. In FY 2025, OISE will continue its support for collaborative research that will enable innovative international connections not otherwise possible for U.S. researchers and students, advance the frontiers of knowledge, and contribute to U.S. scientific leadership.

In FY 2025, OISE will contribute to the following NSF cross-foundational activities.

- OISE will continue its support for Advanced Manufacturing at a level up to $520,000 to increase knowledge in emerging areas to enable a new generation of manufacturing industries that do not exist today, that are compatible with human needs, that make U.S. manufacturing competitive far into the future, and that builds in resilience to global disruptions for the Nation’s manufacturing infrastructure.
- OISE will continue to fund Navigating the New Arctic at a level up to $500,000. OISE’s funds will support research that builds on and extends existing observing networks and scientific knowledge as well as logistics expertise to address the convergent scientific challenges in the changing Arctic. Interagency, state government, and international partnerships will be further developed to achieve pan-Arctic and Arctic-global perspectives.
- OISE will continue its investment of up to $1.05 million in QIS to promote international cooperation. QIS will continue to build upon and extend the existing knowledge of the quantum world, fostering breakthroughs in the fundamental understanding of quantum phenomena and enabling the exploitation of these phenomena to disrupt the Nation’s science and engineering landscape. These advances will unleash the potential of the Nation’s quantum-based scientific enterprise, economy, and propel the Nation forward as a leading developer of quantum technology.

Major Investments

OISE Major Investments

(Dollars in Millions)

Area of Investment[1,2]	FY 2023 Base Plan	FY 2024 (TBD)	FY 2025 Request	Change over FY 2023 Base Plan Amount	Change over FY 2023 Base Plan Percent
Advanced Manufacturing	$0.50	-	$0.52	$0.52	N/A
BaRP: Clean Energy Technnology	7.50	-	-	-	N/A
BaRP: USGCRP	15.50	-	12.00	12.00	N/A
Quantum Information Science	1.00	-	1.05	1.05	N/A

[1] Major investments may have funding overlap and thus should not be summed.

[2] This table reflects this office's support for selected topics. Investment priorities and presentation may differ by organization and so should not be summed across narratives.

To learn more about cross-agency themes and initiatives supported by OISE, including Advanced Manufacturing, Climate, and Quantum Information Science, see individual narratives in the NSF-Wide Investments chapter.