



U-M RESEARCH AWARD AND EXPENDITURES REPORT
NOVEMBER 2024

**Received by the Regents
December 5, 2024**

This report summarizes the overall trends in grant and contract activity across all three campuses of the University of Michigan through the third month of Fiscal Year 2025, which ended Sept. 30.

Total research expenditures through the third month of FY25 totaled \$563 million, which is up 8.4% when compared to September 2023.

The number of research submissions through the third month of FY25 was up 7%, and the value of those submissions increased 10.4% when compared to September 2023.

The number of new research awards from external sponsors during the third month of FY25 increased 6.8%, while their value decreased 10.6% when compared to September 2023.

Arthur Lupia, Vice President for Research and Innovation (interim)

Shandra White, Assistant Vice President for Research – Sponsored Projects

Jason Owen-Smith, Associate Vice President for Research – Institutional Capabilities and Research Intelligence

Highlights of this month's report include:

- A \$35 million award from the U.S. Space Force to a national research team led by the University of Michigan for the newly formed **Space Power and Propulsion for Agility, Responsiveness and Resilience Institute**. The effort will be the first to bring fast chemical rockets together with efficient electric propulsion powered by a nuclear microreactor.
- A \$25 million grant from the National Oceanic and Atmospheric Administration to support collaborative research initiatives addressing **critical environmental challenges in U.S. coastal communities**. The five-year grant was awarded to the National Estuarine Research Reserve System Science Collaborative at U-M's Graham Sustainability Institute.
- A \$4 million award from the Health and Human Services Department's Health Resources and Services Administration to the **UM-Flint Educates Rural Nurses** program. The program seeks to increase the number of nurses in rural and underserved communities in Michigan's Thumb region.

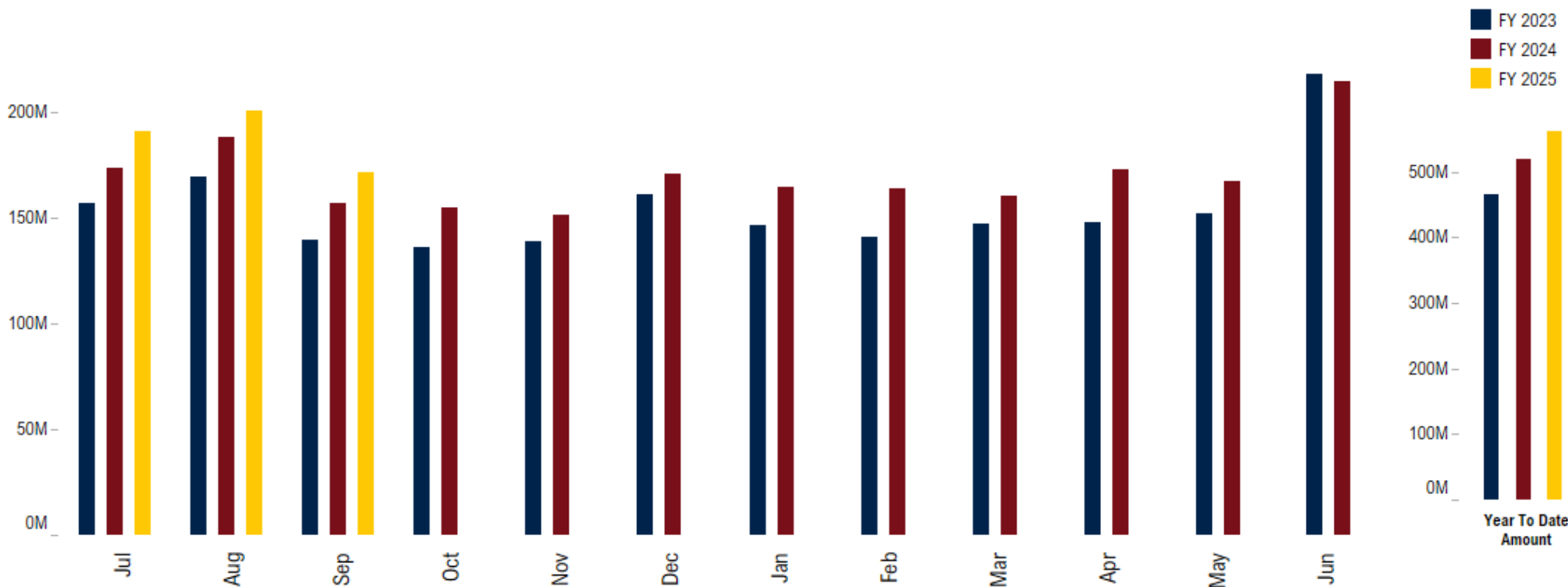
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Expenditures

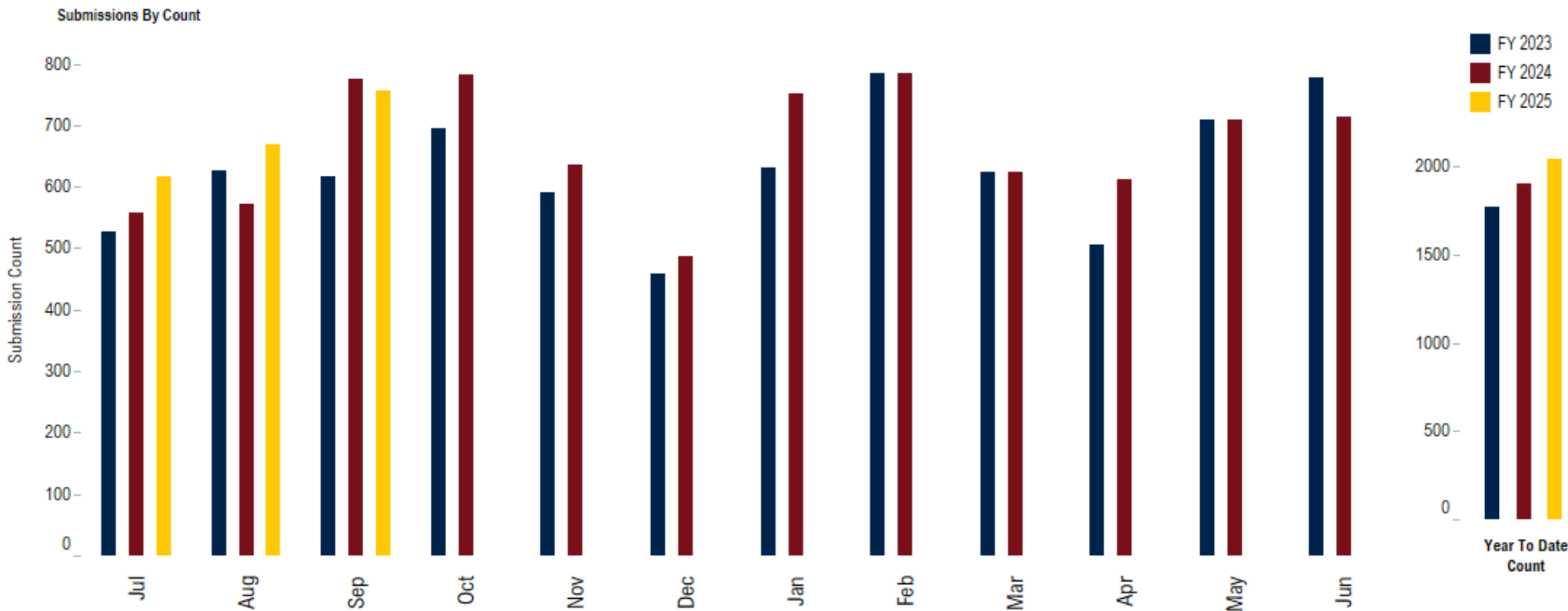
Expenditures By Amount



Year to Date

FY23: \$466,751,706
 FY24: \$519,553,932
 FY25: \$563,242,022

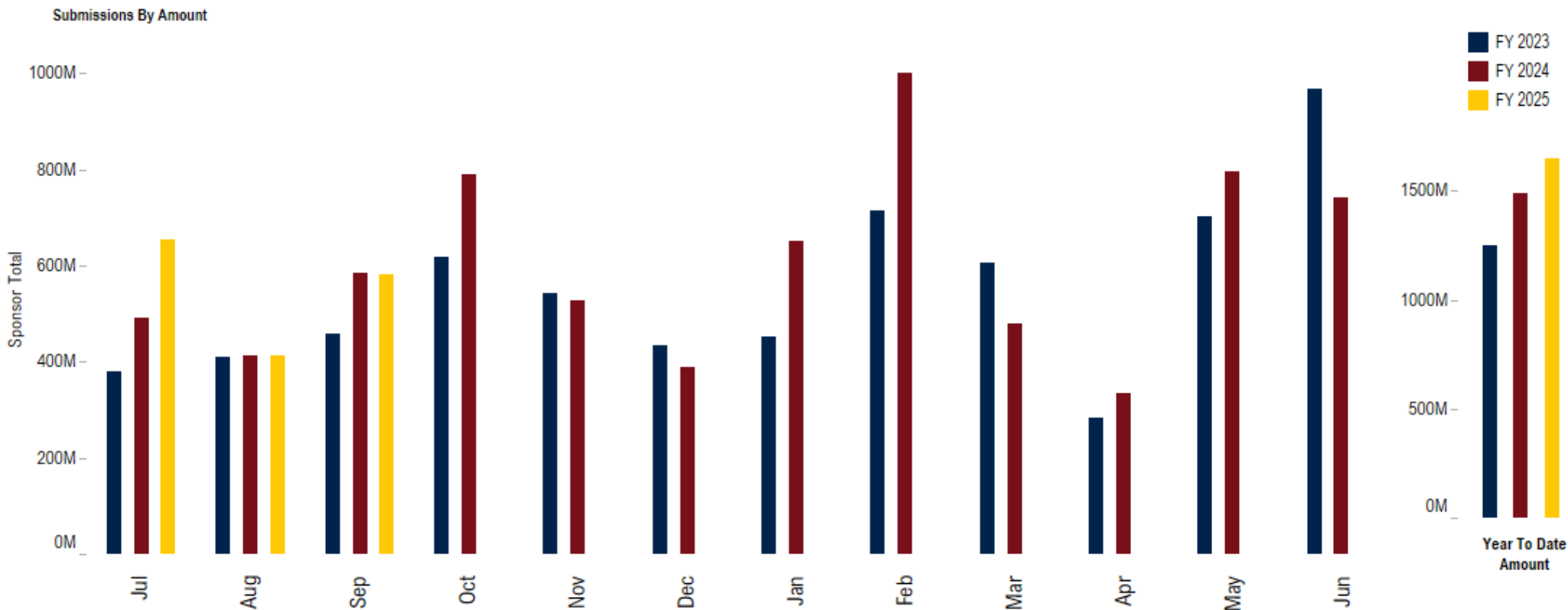
Submissions by Count



Year to Date

FY23: 1,771
FY24: 1,906
FY25: 2,040

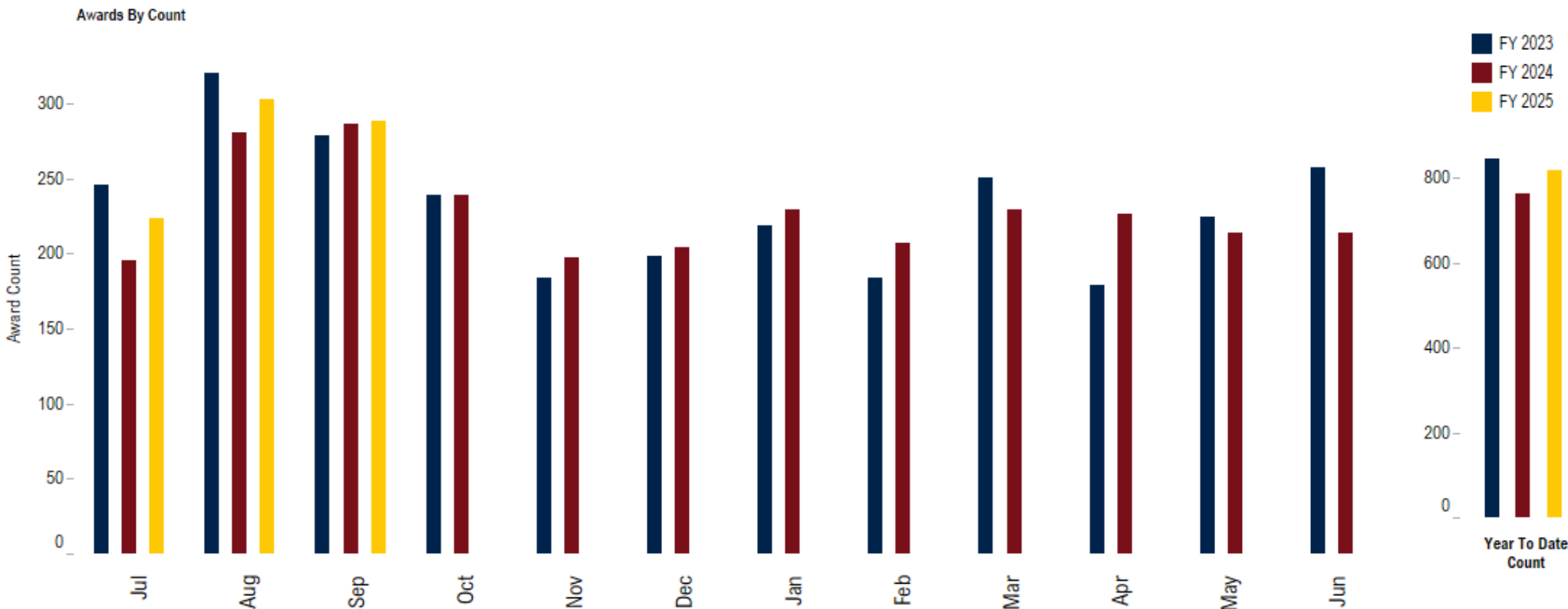
Submissions by Amount



Year to Date

FY23: \$1,249,232,349
 FY24: \$1,491,889,871
 FY25: \$1,646,478,969

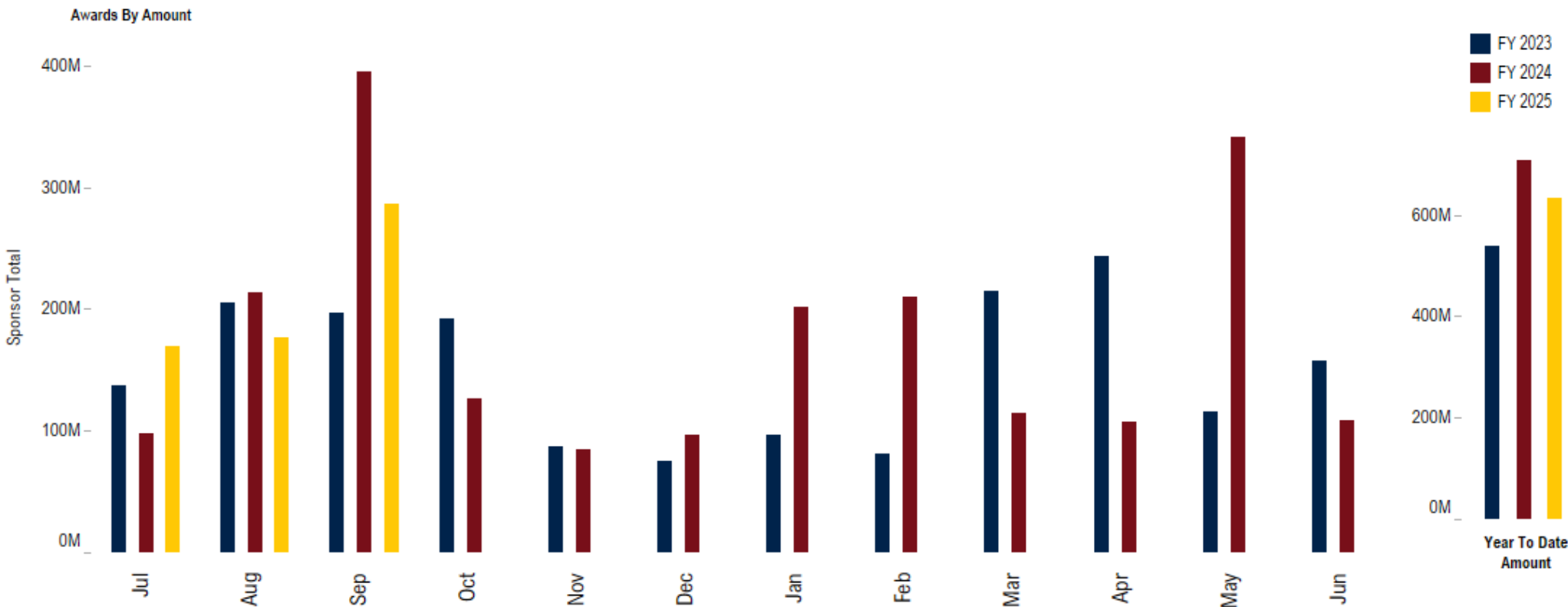
Awards by Count



Year to Date

FY23: 846
 FY24: 764
 FY25: 816

Awards by Amount



Year to Date

FY23: \$538,878,064
 FY24: \$706,932,107
 FY25: \$632,025,269

Top Monthly Awards

National Science Foundation

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Fu, Jianping	Mechanical Engineering	NSF-BSF:EFRI BEGIN OI: Integrated human brain organoid systems for adaptive reservoir computing	National Science Foundation	\$1,999,997	4.0
Kerkez, Branko	Civil & Environmental Engr	SCC-IRG Track 2: Smart Watersheds for Conservation and Resilience	National Science Foundation	\$1,500,000	3.0
Diba, Kamran	MM Anesthesiology Department	CRCNS Research Proposal: Hippocampal microcircuit dynamics inferred from finely-timed spike trains	National Science Foundation	\$1,200,000	4.0

National Institutes of Health

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Mehdipanah, Roshanak	Hlth Behavior & Hlth Eq Dept	Partners in Research: Building capacity for community-driven research to advance health equity	Health and Human Services, Department of-National Institutes of Health	\$6,734,253	5.0
Magee, John	MM Transplant Surgery (STX)	Childhood Liver Disease Research Network (ChILDReN) Scientific andData Coordinating Center	Health and Human Services, Department of-National Institutes of Health	\$5,055,233	4.9
Kalantry, Sundeep	MM Human Genetics Department	Evolution of Mammalian Sex Chromosome Dosage Compensation	Health and Human Services, Department of-National Institutes of Health	\$4,480,065	5.0

Top Monthly Awards

Department of Defense

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Jorns, Benjamin	Aerospace Engineering	Space Power and Propulsion for Agility, Responsiveness, and Resilience (SPAR)	Defense, Department of-Air Force, Department of the	\$34,989,500	5.0
Mi, Zetian	EECS - ECE - SSEL	Nanoscale and Transduction-Optimized Pristine Ferroelectric Nitrides (NanoTOP)	Defense, Department of-Army, Department of the	\$4,500,000	3.0
Subramanian, Vijay	EECS - ECE - Cspl	New Game Theory for New Agents: Foundations and Learning Algorithms for Decision-Making Mixed-Agents	Defense, Department of-Navy, Department of the	\$4,125,000	3.0

Department of Energy

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Lu, Wei	Mechanical Engineering	Rapid state of health diagnosis by model-enabled pulse form sequence	Energy, Department of	\$2,680,000	3.0
Pratt, Kerri	LSA Chemistry	Pristine Southern Ocean Aerosol and Cloud Processes: Coupling Single-Particle Measurements and Modeling during CAPE-K	Energy, Department of	\$944,973	1.5
O'Brien, Rachel	Civil & Environmental Engr	Generalizing aerosol mixing state: synthesis from observations and connection to models	Energy, Department of	\$937,036	3.0

Top Monthly Awards

Industry

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Xu, Jie	MM Int Med-Cardiology	Novel selective SGLT-1 inhibitors for adjunctive therapy for cystic fibrosis associated metabolic diseases	GeneToBe, Inc	\$1,500,000	3.0
Pianko, Matthew	MM Int Med-Hematology/Oncology	A Phase I/II, Open-Label, Multiple Centre Clinical Study to Evaluate the Safety, Tolerability, Pharmacokinetics, Immunogenicity and Preliminary Efficacy of AZD0305 in Patients with Relapsed or Refractory Multiple Myeloma	AstraZeneca Pharmaceuticals LP	\$788,449	3.0
Sahai, Vaibhav	MM Int Med-Hematology/Oncology	First in Human Phase 1/2 Trial of ELI-002 7P Immunotherapy as Treatment for Subjects with Kirsten Rat Sarcoma (KRAS)/Neuroblastoma RAS viral oncogene homolog (NRAS) Mutated Pancreatic Ductal Adenocarcinoma (PDAC) and Other Solid Tumors	Elicio Therapeutics, Inc.	\$767,394	5.0

Foundations

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Moynihan, Donald	G. Ford Sc Pub Pol	Benefits Access Efficacy Research, Better Government Lab	Bill and Melinda Gates Foundation	\$2,353,526	3.0
Mustata, Mircea	LSA Mathematics	Simons Collaboration on Moduli of Varieties	Simons Foundation International, Ltd. (SFI)	\$887,857	4.0
Abdel-latif, Ahmed	MM Int Med-Cardiology	Pro-angiogenic Effects of Cardiac Macrophages Enhance Myocardial Repair in Regenerative Species	The G. Harold and Leila Y. Mathers Foundation	\$749,953	3.0