



U-M RESEARCH AWARD AND EXPENDITURES REPORT  
FEBRUARY 2025

**Received by the Regents  
February 20, 2025**

This report summarizes the overall trends in grant and contract activity across all three campuses of the University of Michigan through the sixth month of Fiscal Year 2025, which ended Dec. 31.

Total research expenditures through the sixth month of FY25 totaled \$904 million, which is up 8.8% when compared to December 2023.

The number of research submissions through the sixth month of FY25 was up 11.4%, and the value of those submissions increased 19.7% when compared to December 2023.

The number of new research awards from external sponsors during the sixth month of FY25 increased 2.6%, while their value decreased 11.6% when compared to December 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

## Some highlights of this month's report include:

- A \$14 million award from NASA to Xianzhe Jia, a professor of climate and space sciences and engineering in the College of Engineering, to [support his work as deputy science team leader](#) for **Europa Clipper's Magnetometer**. The spacecraft's main goal is to determine whether there are places below the surface of Jupiter's icy moon, Europa, that could support life.
- A \$3.4 million grant from the National Science Foundation to Ken Sylvester, interim executive director of the Office of Research and Economic Development at UM-Flint and director of the Office of Research at UM-Flint, for a project investigating the impact of key investments in the professional support staff needed to [build and sustain a research-active culture](#) at a **regional public institution** and allow it to innovate and grow in step with the need for economic development and educational innovation in its regional setting.
- A \$3.2 million award from the National Institutes of Health to Brian Ross – the Roger A. Berg M.D. Radiology Research Professor, a professor of radiology and biological chemistry and associate chair of radiology basic science research in the Medical School – for research toward the **development of quantitative bone marrow MRI biomarkers** to assess the efficacy of novel molecularly targeted agents for a rare blood cancer.

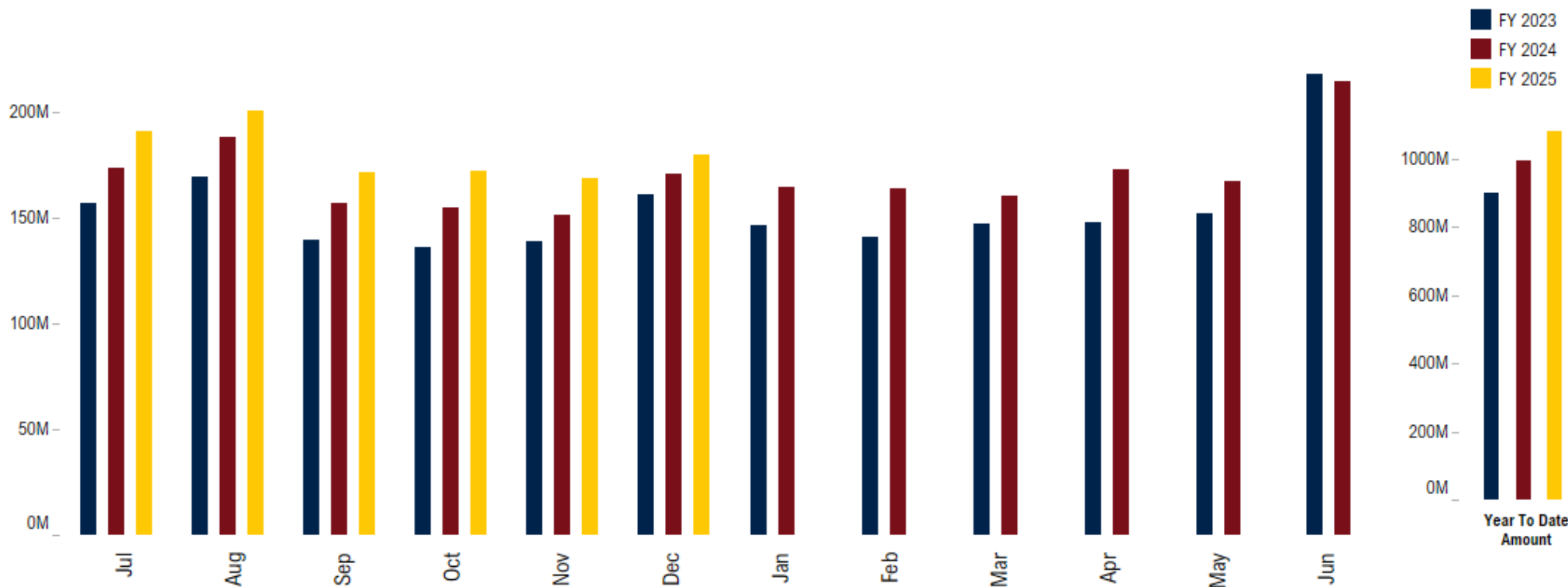
Arthur Lupia, Vice President for Research and Innovation (interim)

Shandra White, Assistant Vice President for Research – Sponsored Projects

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

## Expenditures

Expenditures By Amount



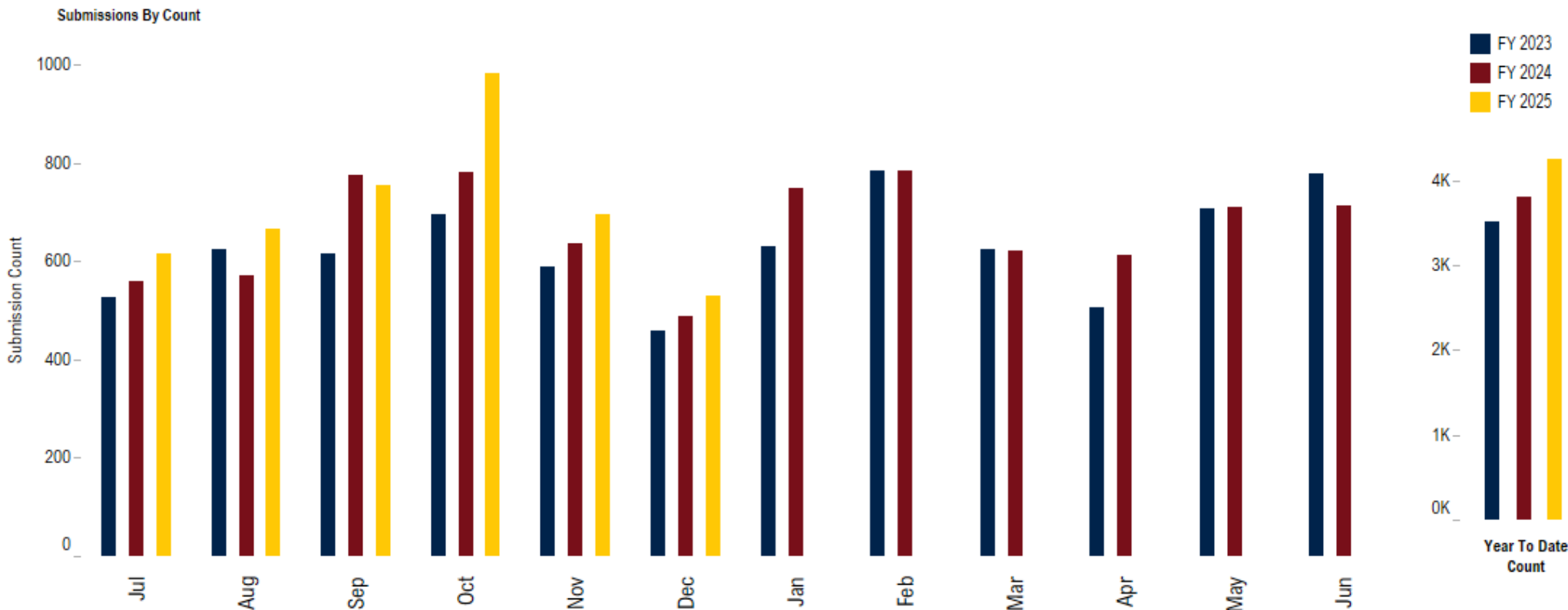
### Year to Date

FY23: \$903,402,410

FY24: \$996,978,928

FY25: \$1,084,279,159

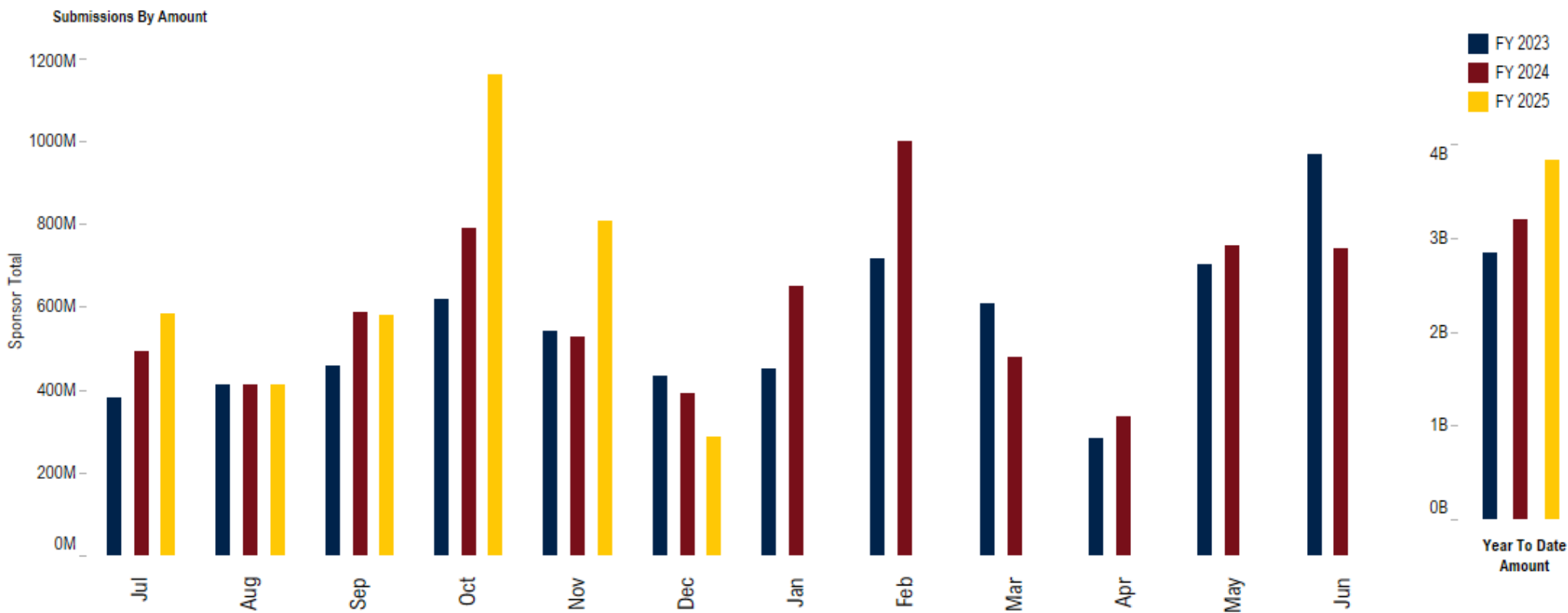
## Submissions by Count



### Year to Date

FY23: 3,516  
FY24: 3,814  
FY25: 4,250

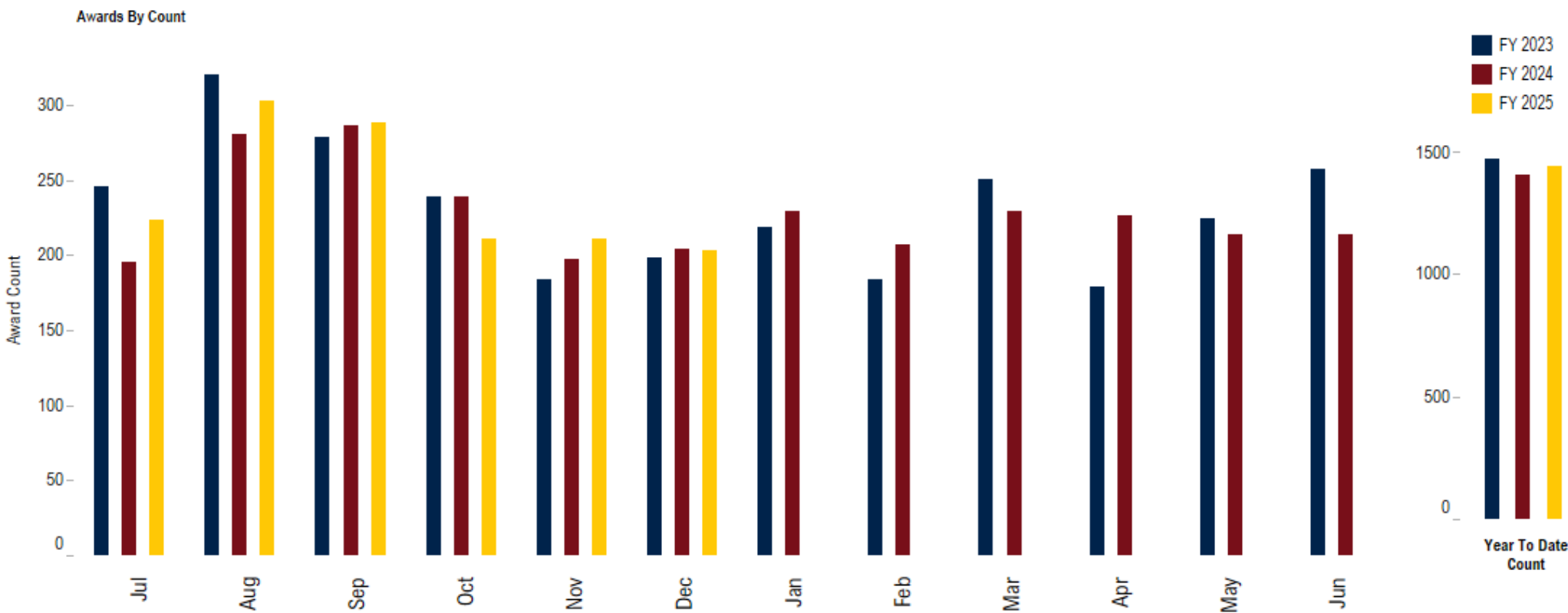
## Submissions by Amount



### Year to Date

FY23: \$2,844,815,803  
 FY24: \$3,200,708,929  
 FY25: \$3,831,424,816

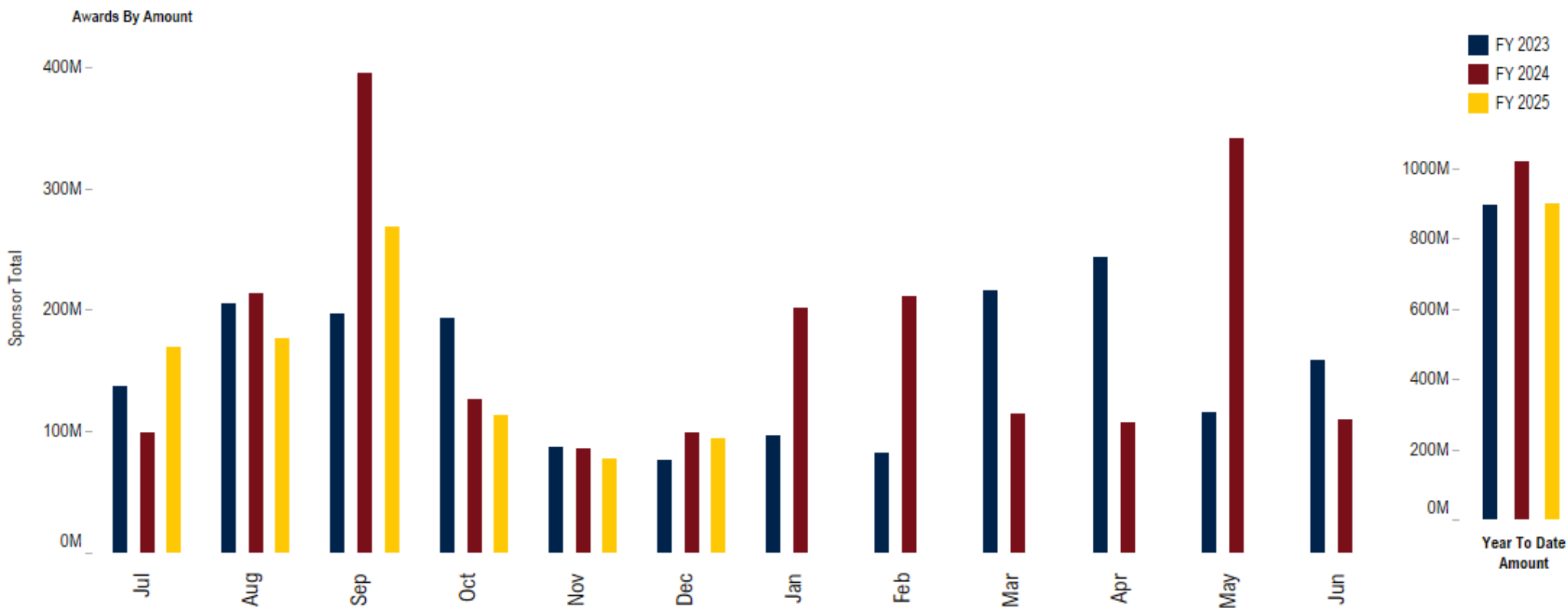
## Awards by Count



### Year to Date

FY23: 1,468  
 FY24: 1,405  
 FY25: 1,441

## Awards by Amount



### Year to Date

FY23: \$897,376,089  
 FY24: \$1,018,551,905  
 FY25: \$900,741,163

# Top Monthly Awards

## National Science Foundation

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Sylvester, Ken	Flint Office of Research	Strategic Use-Inspired Research Growth and Engagement (SURGE): a model for Regional Public Universities	National Science Foundation	\$3,372,553	5.0
Shahani, Ashwin	Materials Science & Engin.	GOALI: Exploring advanced strategies for controlling the distribution of nanoparticles during solidification of metal matrix nanocomposites	National Science Foundation	\$646,284	3.0
Jeannin, Jean-Baptiste	Aerospace Engineering	CISE-ANR: SHF: Small: CAFEE: Control Algorithms Formal End-to-End Verification	National Science Foundation	\$600,000	3.0

## National Institutes of Health

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Ross, Brian	MM Department of Radiology	Development of quantitative bone marrow magnetic resonance imaging biomarkers to assess efficacy of novel molecularly targeted agents for myelofibrosis	Health and Human Services, Department of-National Institutes of Health	\$3,236,990	5.0
Rui, Liangyou	MM Molec & Integratv Physiolog	Role of hypothalamic SH2B1 neurocircuits and SH2B1 signal transduction pathways in obesity and metabolic disease	Health and Human Services, Department of-National Institutes of Health	\$2,979,290	5.0
Rainey, William	MM Molec & Integratv Physiolog	Mechanisms Leading to Adrenal Zonation	Health and Human Services, Department of-National Institutes of Health	\$2,190,264	3.7



# Top Monthly Awards

## Department of Defense

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Xiang, Weidong	Dbn Col of Eng-Electric & Comp	Revitalize Auto Industry: Elevating Automotive Workforce Excellence through Cybersecurity and AI Innovation	Defense, Department of-National Security Agency-Subcontracts	\$348,823	3.0
Gamba, Mirko	Aerospace Engineering	Lab2Mod: From Lab Bench Data to Reduced Models of Transition Dynamics in Turbulence by Reinforcement Learning	Defense, Department of-Defense Advanced Research Projects Agency-Subcontracts	\$243,000	2.0
Ceccio, Steven	Naval Arch & Marine Dept	Cavitation Erosion: Scaling Analysis and Characterization	Defense, Department of-Navy, Department of the-Subcontracts	\$187,500	1.0

## Department of Energy

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Miller, Shellee	Sch for Environ and Sustain	Modeling reverse flows of selected recycled materials, their associated energy use and their GHG emissions An application to California and a blueprint for the US	Energy, Department of	\$28,687	2.5

# Top Monthly Awards

## Industry

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Pianko, Matthew	MM Int Med-Hematology/Oncology	A Phase 3, Multicenter, Randomized, Open-Label Study of ABBV-383 Compared with Standard Available Therapies in Subjects with Relapsed or Refractory Multiple Myeloma (3L+ RRMM Monotherapy Study)	AbbVie Inc.	\$5,149,578	4.9
Kretzler, Matthias	MM Int Med-Nephrology	Vera Therapeutics - NEPTUNE MATCH Public Private Partnership	Vera Therapeutics, Inc.	\$2,295,000	5.0
Reichert, Zachery	MM Int Med-Hematology/Oncology	Study of JAK Inhibition in Stem-like Prostate Cancer (JASPER)	Incyte Corporation	\$1,330,459	5.0

## Foundations

Principal Investigator	Department	Award Title	Sponsor	Award Sponsor Total	Estimated Award Duration (years)
Fleming, Paul	Hlth Behavior & Hlth Eq Dept	Anti-racist Change Work & Governmental Public Health	Robert Wood Johnson Foundation	\$1,100,000	2.0
Matthews, Jamaal	MARSAL EDUC - Ed Studies	Tech-Enabled Teacher Supports: University of Michigan	Bill and Melinda Gates Foundation	\$599,938	2.5
Dlugosz, Andrzej	MM Dermatology Department	Viral dysregulation of embryonic signaling pathways in trichodysplasia spinulosa	Leo Foundation	\$590,960	3.0