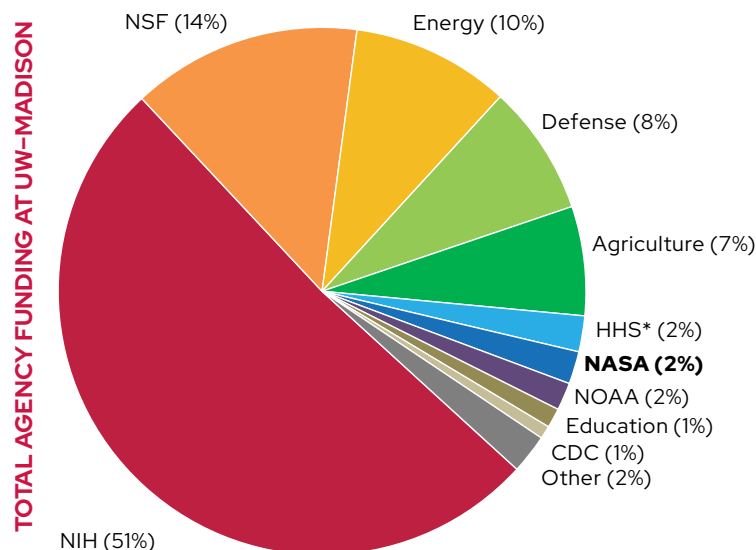




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

UW-MADISON: RANKED #6 NATIONALLY WITH \$1.73 BILLION IN ANNUAL RESEARCH EXPENDITURES

The National Aeronautics and Space Administration (NASA) invests in UW-Madison research that explores the unknown in air and space. From the forest floor to the far reaches of space, NASA supports UW-Madison research that benefits humanity and inspires the world through discovery.



\$16.7 million

**NASA research awards to
UW-Madison in 2023-24**

\$816.8 million

**federal research awards to
UW-Madison in 2023-24**

NASA FUNDING IN ACTION AT UW-MADISON

Uncovering new aspects of the climate through Arctic measures

Polar Radiant Energy in the Far InfraRed Experiment (PREFIRE)

The Arctic is Earth's thermostat, regulating climate by venting excess energy originating in the tropics. PREFIRE – a collaborative research project led by the UW-Madison Cooperative Institute for Meteorological Satellite Studies – is using satellites to gather far-infrared (FIR) data from the Arctic and Antarctic to fill major gaps in knowledge of the Arctic energy budget and the role of FIR radiation in Arctic warming, sea ice loss, ice sheet melt, and sea level rise. The information will lead to better climate models and more accurate predictions on future ice melt and its impact on sea levels. More accurate models will lead to a better understanding of climate change, reduced uncertainty, and better-informed policy decisions. PREFIRE launched new satellites in May and June 2024 that began collecting data in July.

WHY UNIVERSITY RESEARCH MATTERS

NASA-supported research and activities at UW-Madison explore ideas and approaches critical to making science and space exploration more effective and sustainable, addressing atmospheric and climate-related challenges facing humanity, and preparing the next generation of science, technology, engineering and mathematics experts.

APRIL 2025



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