

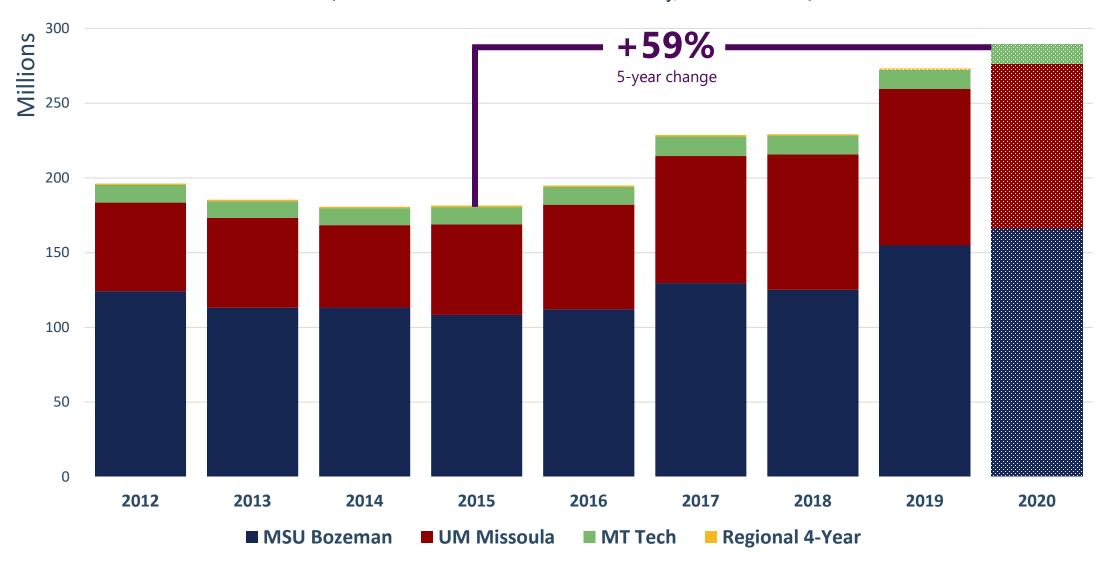
# Montana Research

2021 Interim Update

September 2021

### **Research Expenditures**

(SOURCE: National Science Foundation HERD survey; values in nominal \$)



### **Research & Economic Opportunity**

**SOFTWARE** 



**AG & THE ENVIRONMENT** 



WESTERN
FEEDSTOCK
TECHNOLOGIES









REWIBRO OPTICS











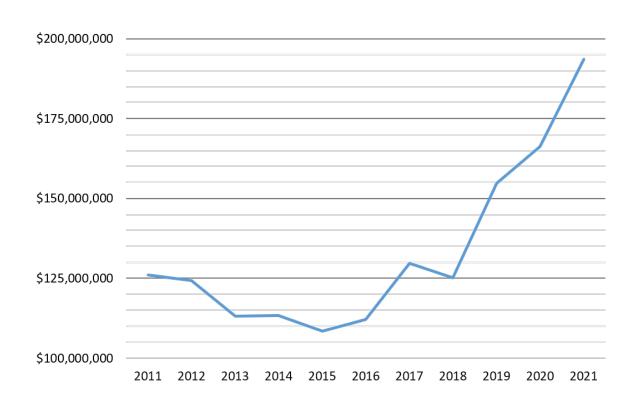
**EDUCATION** 

Success Prints

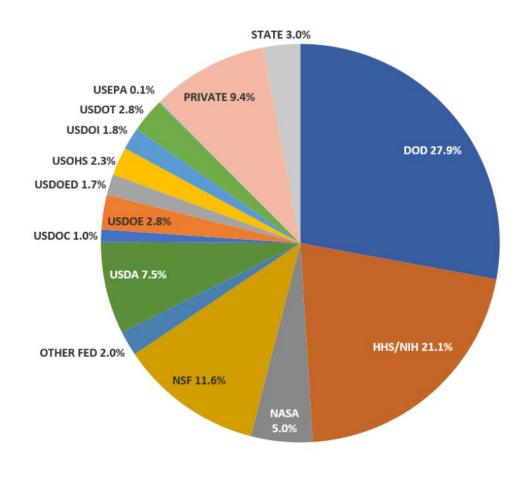


### MSU Research: Expenditures and Portfolio

MSU 10-year Research Expenditures



MSU FY 2021 Expenditures by Sponsor





## NSF-Sponsored Quantum Materials Foundry

#### **Four Primary Goals:**

- 1. Development of material synthesis and fabrication tools for quantum prototyping.
- 2. Seamless integration with next-generation quantum characterization instruments.
- 3. National asset for academic, government, and industry projects and partnerships.\*
- 4. Unparalleled workforce training and development for Montana students.
- \* Startup companies and Montana economic development and sustainability.

\$20 M

Authorized Aug 17, 2021

Regional Consortium (ongoing)

University of Montana research expenditures hit record high

\$125 M

FY21 Total Research Expenditures (Preliminary) +10%

FY21 Sponsored Research

+38%

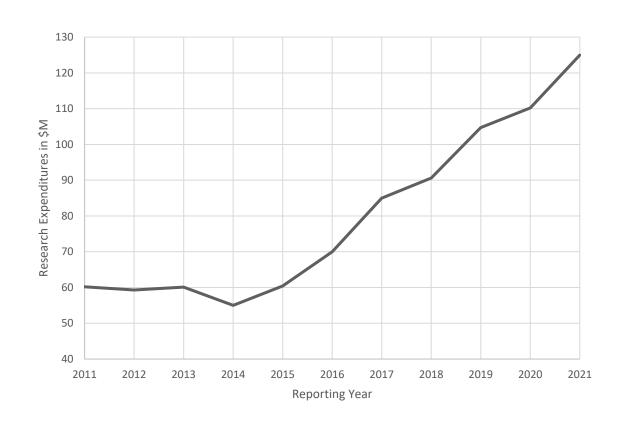
FY21 New Authorized Sponsored Awards

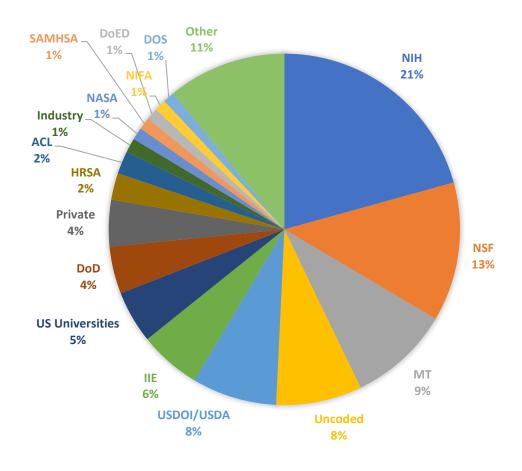


### UM Research: Expenditures and Portfolio

UM 10-year Research Expenditures

UM FY 2021 Expenditures by Sponsor







### **UM Research Solving MT Problems**

## UM gets \$730K federal grant to boost rural, tribal economic development

AMRII envisions a Montana in which rural and Indigenous innovators have the support, training, and access to networks and resources they need to pursue entrepreneurship and innovation, helping to solve the world's most difficult rural problems.



https://acceleratemontana.umt.edu/default.php



https://www.umt.edu/umhm/default.php

 University of Montana College of Health in Missoula, Montana was awarded \$679,441 in order to purchase telemedicine kits to enable critical, remote telehealth services and to provide internet connected devices for remote patient monitoring services during the pandemic for underserved, rural, and Tribal populations within the state.













https://climate.umt.edu/

MISSOULA – The Army Corps of Engineers has awarded a \$21 million contract to the Montana Climate Office at the University of Montana to install weather stations for monitoring snowpack and soil moisture in the Upper Missouri River Basin.



### A BIG Year for MT Research

Montana leads the region in research, with 2019 expenditures passing North Dakota and rising to ~1.5X Idaho, ~2X South Dakota and ~3.5X Wyoming

> expenditures at the University of Montana from 2014-2019

Growth in research

+25%

Year-on-year increase at MSU and UM in R&D award volume, a key leading indicator of future research expenditures

New startups commercializing MUS research, 2010-2020

121

Patents issued to MUS researchers, 2010-2020



Montana State University is the largest research university by R&D expenditures in the region, for the first time since 2010

90%

OCHE – Academic, Research, and Student Affairs