National Science Foundation

SUPPORTING U-M RESEARCH AND SCHOLARSHIP

The National Science Foundation partners with researchers across U-M to strengthen the United States economy, while also enhancing the nation's security and advancing knowledge to sustain global leadership.

$91 MILLION

Research Supported by NSF in FY20

1,019

Active Projects Supported by NSF

1,107

Faculty, Postdocs and Grad Students Supported Annually by NSF

NextGen Space Weather Modeling
Solar storms and other space weather events have the potential to impact society on a national or global scale. With support from NSF, U-M is leading a project to improve forecasting through next-generation space weather modeling software. This research aims to accurately predict solar storms and coronal mass ejections a full day in advance.

Wireless Sensors for N95 Masks
Funding from NSF supported research to evaluate whether N95 masks could be decontaminated, allowing medical workers to reuse masks during a nationwide shortage of medical supplies. U-M research supported the creation of tiny wireless sensors for recycled N95 masks that could verify, in real time, whether the masks were exposed to proper decontamination conditions.

COVID-19 Tracking in Sewage
U-M researchers are focused on creative solutions to combat the spread of COVID-19. With support from NSF, U-M researchers are exploring how traces of COVID-19 can be detected in wastewater. This sewer tracking could allow public health officials to monitor specific areas and see where a spike of positive cases will occur, without taking testing kits from hospitals.