

NMSU Research Cores Program (RCP)

The NMSU RCP is a program of the Office of the Vice President for Research that began January 4th, 2021 with the directive to ensure that our large research infrastructure and instrumentation facilities are well-equipped, well-staffed, well-supported and sustainable.

Details of the RCP can be found at:

<https://research.nmsu.edu/RCP.html>

RCP Current Activity

RCP Administration:

- Providing input on large instrumentation proposals
- High Performance Computing Partnership with ICT
- Website
- HEERF/COVID Performance fund request, earmark proposal, all labs
- Shimadzu SPARQ
- Input from Core Program directors at Colo. State, Oregon State, Oklahoma State

Chemical Analysis and Instrumentation Laboratory :

- New director, Dr. Robert Young, June 1st

Microscopic Imaging Core Suite:

- New director, Q2 FY22
- Advisory board in place
- Usage history and documentation
- Billing

Molecular Biology DNA Sequencing Lab:

- Billing

X-Ray Diffraction Lab:

- Rates, new for off campus
- Proposals - ties to new faculty users



RESEARCH CORES
PROGRAM

Near Term Projects

High Performance Computing has just come onboard

Bioinformatics Core

- Initial efforts around funded research projects and HPC development
- LEADS 2025 Fellows

Instrumentation Proposals

- Army, August 2021
- NSF MRI
 - CAIL
 - MICS

Center Proposals



Recent Success

CAIL New Awards:

NIH/\$888k Heart Attack Metabolomics

Patrick Trainor, CoB, Statistics
Tanner Schaub, OVPR, RCP

NSF/\$1.2 M, Proteomics/Biofilms

Erik Yukl, A&S, Chemistry
Samantha Carlisle, A&S, Chemistry
Patrick Trainor, CoB, Statistics
Tanner Schaub, OVPR, RCP

USDA/\$335k, Instrumentation

Pei Xu, CoE, Civil Engineering
Omar Holguin, ACES, PES
Patrick Trainor, CoB, Statistics
Tanner Schaub, OVPR, RCP

DoD/~\$300k, Perfluorinated alkylated substances (PFAS)

Robert Young, OVPR, RCP
National High Magnetic Field Laboratory
Colorado State

W
18%

NMSU

NIH awards \$888,000 grant to NMSU researchers studying heart attacks

Carlos Andres López New Mexico State University

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View Comments



New Mexico State University faculty members Tanner Schaub, left, and Patrick Trainor, examine blood samples from a heart attack patient with postdoctoral student Maha Abutokaikah. The researchers are studying blood samples from