New Mexico State University
College of Engineering – Office of Engineering Research

About Engineering Research
Our portfolio includes over 120 externally-funded research projects and expenditures of over $13M. Faculty research is funded from a variety of agencies including Dept. of Agriculture (USDA); Bureau of Reclamation; Dept. of Defense (DoD) including Air Force Office of Scientific Research (AFOSR) and Office of Naval Research (ONR); Dept. of Education; Dept. of Energy (DoE) including Los Alamos National Laboratories (LANL) and Sandia National Laboratories (SNL); National Aeronautics and Space Administration (NASA); National Institutes of Health (NIH); and National Science Foundation (NSF).

Research Strengths
Research areas with a critical mass of active researchers from across the college include

- Energy, Environment, and Water (18 Faculty)
- Data and Information Science (14 Faculty)
- Infrastructure/Structures (7 Faculty)
- STEM Education (9 Faculty)

(1) Incl. Communications/Signal Processing, Artificial Intelligence/Machine Learning, Sensors/Sensing Applications
(2) Incl. Construction and Materials, Non-Destructive Testing, and Structural Monitoring

Graduate Students
Current graduate enrollment: 199 masters and 136 doctoral students
For the academic year 2018-2019, graduate degrees awarded: 101 (MS) / 21 (PhD)

Research Centers
The College of Engineering is home to six national Engineering Research Centers
- Carlsbad Environmental Monitoring & Research Center (CEMRC)
- CBBG: Center for Bio-Mediated and Bio-Inspired Geotechnics
- iCREDITS: Interdisciplinary Center of Research Excellence in Design of Intelligent Technologies for Smart Grids
- National Alliance for Water Innovation (NAWI)
- Re-inventing the Nation’s Urban Water Infrastructure (ReNUWIt)
- Tran-SET: Transportation Consortium of South-Central States

Signature Research Programs
- Communications, Sensing, and Signal Processing
- Environment and Infrastructure
- Energy and Energy Storage
- Water

Strategic Research Areas
- Advanced Manufacturing and Systems Engineering
- Autonomous Systems and Robotics
- Aerospace
- Cybersecurity

Funding Priorities
- Additive manufacturing with applications in aerospace and construction industries
- Cybersecurity including RF device fingerprinting and sensor network security
- Structural health monitoring using sensor networks and advanced signal processing with applications in aerospace systems, bridge monitoring, and petrochemical plants
- Water treatment including desalination, contaminant removal, and membrane development

For more information please see: https://engr.nmsu.edu/ 2019-2020