# NEW MEXICO EPSCoR

## ENERGIZE NEW MEXICO
### Research Infrastructure Improvement Program, 2013-2018



## VISION OF ENERGIZE NEW MEXICO

Energize New Mexico will help lead the nation in harnessing and promoting sustainable energy resources, cultivating a well-qualified Science, Technology, Engineering and Math (STEM) workforce, and developing a sustainable culture of entrepreneurship and innovation. The New Mexico EPSCoR Research Infrastructure Improvement (RII) Program is investing in critical equipment, facilities and faculty to address fundamental basic and applied research questions related to improving energy extraction efficiencies and promoting sustainable resource development.

## SETTING A NEW STANDARD

At NM EPSCoR, we are working to improve the research, cyberinfrastructure, and human resources required for New Mexico to achieve its energy, education and workforce development potential. Proposed infrastructure and activities of NM EPSCoR RII: Energize New Mexico are designed to support shared use equipment, engage new faculty, and support the STEM pipeline. Research findings will be communicated broadly through new partnerships with New Mexico's museum network, a citizen-centric designed web portal, and vibrant, experiential programs targeting K-12 students.

## PARTICIPATING INSTITUTIONS



SFCC — Santa Fe Community College
New Mexico Highlands University
UNM
Eastern New Mexico University
New Mexico Tech — Science • Engineering • Research University
NM State University
Santa Fe Institute — New Science. New Horizons. 1984-2014
gcce
Los Alamos National Laboratory
Great Seal of the Navajo Nation
New Mexico Consortium
The National Museum of Nuclear Science & History
¡explora!
New Mexico Museum of Natural History & Science

New Mexico EPSCoR

# ENERGIZE NEW MEXICO

*New Mexico Experimental Program to Stimulate Competitive Research*

## KEY RESEARCH QUESTIONS

The NM EPSCoR science research component focuses on one overarching question: *How can New Mexico realize its energy development potential in a sustainable manner?* Energize New Mexico research goes further by examining these specific elements:

» How can the efficiency of resource utilization or extractive technologies be increased?

» Can we sustain extractive energy development with minimal risk to water and environmental resources?
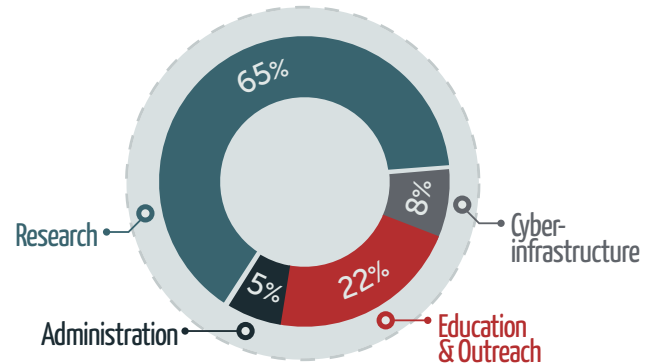
## KEY PERSONNEL

**Dr. William Michener**
Director of New Mexico EPSCoR
Principal Investigator

**Dr. Mary Jo Daniel**
Associate Director of New Mexico EPSCoR
Co-Principal Investigator

**New Mexico EPSCoR**

## ENERGIZE NEW MEXICO FUNDING

- Research — 65%
- Cyber-infrastructure — 8%
- Education & Outreach — 22%
- Administration — 5%

## RESEARCH COMPONENT FUNDING

- Social & Natural Science Nexus — 12%
- Bioalgal Energy — 28%
- Geothermal Energy — 12%
- Osmotic Power — 12%
- Seed Awards — 8%
- Uranium Transport & Site Remediation — 12%
- Solar Power — 16%