

# NSF EPSCoR Track 1: Beyond the 2020 Vision: Building Research, Education and Innovation Partnerships for South Dakota

All Investigator Zoom Meeting  
December 10, 2020

# Meeting Goals

- Provide Background and Update on Project
- Outline Year 2 Activities & Goals
- Connect and Network Participants
- Facilitate Focused Discussions
- Facilitate Cross Discipline Discussions
- Get Input from Participants

# NSF EPSCoR

## MISSION

EPSCoR enhances research competitiveness of targeted jurisdictions (states, territories, commonwealth) by strengthening STEM capacity and capability.

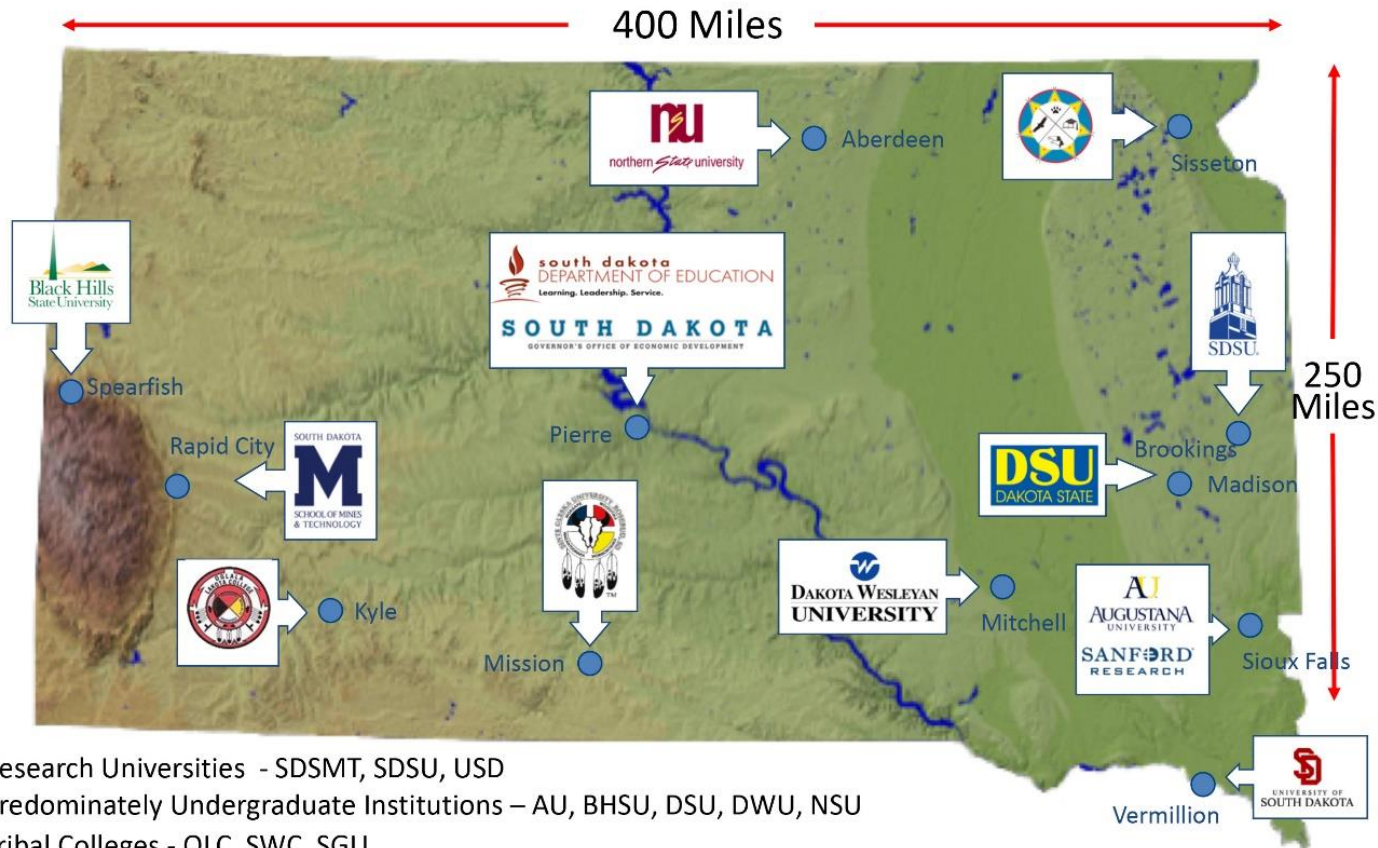
## VISION

EPSCoR envisions its jurisdictions as recognized contributors to the national and global STEM research enterprise.

## GOALS

- Catalyze research capability across and among jurisdictions;
- Establish STEM professional development pathways;
- Broaden participation of diverse groups/institutions in STEM;
- Effect engagement in STEM at national and global levels; and
- Impact jurisdictional economic development.

## EPSCoR Participating Institutions



# Project Overview

Five Year \$24 Million Project (Oct. 2019-Sept. 2024)

Research Focus — Biofilm

- Thrust 1: Stress Resistant Biofilms
- Thrust 2: Microbial Resilient Biofilms
- Thrust 3: Big Data

STEM Education/Workforce Development

- Curriculum Development, Diversity & Science Communication

Economic Development

- Internships, Entrepreneurship, Collaboration

# Integrated Collaborative Project

- Participants are encouraged and expected to be involved in various aspects of the project.
  - Collaborative Research
  - Curriculum Development
  - Teaching
  - Mentoring
  - Science Communications
  - Professional Development

# Collaborative Research

- Track 1 Seed Grants
- External Research Proposals
- Industry & Community Collaborations
- Summer Institutes
  - Undergraduate Research Experiences
  - High School Research Experiences

# Curriculum Development, Teaching, Mentoring

- Integration of Native culture into STEM curriculum
- K-12 Education
  - 6 k-12 Curriculum Units
- Dual Credit
  - Dual Credit STEM Course/Research Experience
  - TCU Based Native High School and TCU Students



# Science Communications

## Opportunities

- Workshops
  - 3 Hour introductory workshops (6)
- Communications Fellows
  - Four 3 Hour Sessions
  - Develop and Deliver a Hands on Activity
  - Develop Activity Highlight for website
  - Register at:

[www.sd-discovery.org/scientists](http://www.sd-discovery.org/scientists)

## Effectively Communicate Your Work



# Your Involvement & Help Is Needed

- SD EPSCoR Website Update & Ongoing
- Reverse Site Visit-March 22, 2020
  - Information Lead Request
  - Keep ER Core Information Current
- Project Highlights (Lay Person)
  - Photo
  - Outcome
  - Impact
  - Background

# Meeting Tasks

- Provide Feedback on Meeting and Project
- Identify Two Activities to Get Involved
- Identify Two Potential Collaborators
- Have a Productive Day
- Have a Success Project Year 2