



The South Dakota NSF Established Program to Stimulate Competitive Research (EPSCoR) will be conducting a meeting on **Wednesday, Oct. 12, at the SDSU Foundation Jerome J. Lohr Building** (815 Medary Ave.) on the **SDSU campus in Brookings** to initiate **planning for the next** South Dakota's NSF EPSCoR Research Infrastructure Improvement (RII) **Track-1 proposal**. Anticipated submission date is August 1, 2023.

## Agenda (tentative)

Wednesday, Oct. 12, 2022

*(Will be updated as more information is finalized.)*

8:00 – 8:15 a.m.      **Registration, Breakfast** | Woster Celebration Hall

8:15 – 9:00 a.m.      **Welcome and Opening Remarks** | Kinchel Doerner, Dir SD EPSCoR

9:00 – 10:00 a.m.    **Track 1 Overview** | Kelvin Chu, The Implementation Group (TIG)

10:00 – 10:10 a.m.    *Break*

10:10 – 11:00 a.m.    **Research Focus Overview**

Rajesh Shende, South Dakota Mines  
Randy Hoover, South Dakota Mines

Objectives are to aid in the reduction of carbon utilization of the state's agriculture and related sectors through advances in research and artificial intelligence; strengthening the STEM workforce and industrial base; educational and outreach activities within our institutions of higher education, business, rural and tribal communities.

11:00 a.m. – 12:00 p.m. **Open Discussion of Research Focus**

12:00 – 1:00 p.m.    **Working Lunch**

1:00 – 2:30 p.m.      **Breakout Sessions**

**Carbon Breakout:** Identify target areas within agriculture and related sectors that could potentially yield substantial reductions of carbon utilization and what roles advancing technologies, AI/ML, and precision agriculture could play.

**Artificial Intelligence and Machine Learning Breakout:** Identify how AI/ML can assist in research to reduce carbon footprint and application of innovation through advancing technology.

**Precision Ag Breakout:** Identify challenges and opportunities (technical, economic, regulatory, etc.) for implementing carbon reduction innovations using precision agriculture.

2:30 – 2:40 p.m.      *Break*

2:40 – 3:15 p.m.      **Reports from Breakout Sessions** (10 min. for each)

3:15 – 4:00 p.m.      **Open Discussion on Refining Research Focus Areas**

4:00 – 4:30 p.m.      **Logic Model Structure and Timelines** | Kelvin Chu, The Implementation Group (TIG)

4:30 – 5:00 p.m.      **Concluding Remarks and Next Steps** | Kinchel Doerner, Dir SD EPSCoR