President Cook's priorities include maintaining our Carnegie R1 classification and helping nurture a thriving and mature R1 research culture on campus.

NDSU Top 4 Research Priorities

- Food, Energy and Water Security (FEWS)
- Cybersecurity, Computer Science and Software Engineering
- Life Sciences
- Entrepreneurship and Innovation

NDSU | RESEARCH AND CREATIVE ACTIVITY

Legislative Session

Economic Diversification Research Funds

- The purpose of the grants is: 1) to stimulate economic activity across the state through innovation of new technology, concepts, and products; 2) to promote job creation and career and wage growth; 3) to enhance health care outcomes; 4) to address loss of revenue and jobs in communities with economies that depend primarily on the fossil fuel industry; and 5) to provide experiential learning opportunities for students. (Section 16.3) Projects that leverage funds from other sources will be of particular interest. Institutions are permitted to carry out research in collaboration with one or more NDUS institutions or the private sector.

Faculty Research Council

Expect to see internal funding opportunities and to hear FRC recommendations to Dr. Cook.

AY23-24 Priorities for RCA

- Research Leadership

- Industry Partnerships

- Equity and Inclusion

- Innovation

NDSU | RESEARCH AND CREATIVE ACTIVITY

Build a Community around Research

BisonSpark Talks

- Nomination package due 9/5 at 5 pm
- Talks 3 pm – 4:30 pm:
- **October 16, 2023**
- **October 23, 2023**
- **October 30, 2023**

- Campus discussions emerging from the BisonSpark Talks will contribute to the iterative generation of research questions throughout the year.

Next Steps

- **Scoping workshop:**
- **November 6, 2023**
- All-of campus research ideation around the 4 priority areas

- **Jumpstart:**
- **March 4-8, 2024**
- (Tentative) application-only proposal development for larger team internal funding

FARMS in the Sweet Sixteen

NSF Engine Type
- ☑ NSF Engines Finalists (Type-2)
- ☐ NSF Engines Development Awards (Type-1) ⊛

Alaska

Hawaii

Mariana Islands & Guam

American Samoa

Puerto Rico & U.S Virgin Islands

NSF Program Purpose for Engines

"Catalyze and accelerate innovation ecosystems across the U.S. to advance critical technologies, address societal and economic challenges, promote economic growth and job creation, and cultivate regional talent."

Potential for $160M in funding over 10 years (2 year rolling budgets).

Specifically for regions that have not had the same investment for tech-driven entrepreneurship and innovation.

Goal: For North Dakota to become the undisputed national leader in AgTech.

Northern Plains AgTech Engine for Food systems Adapted for Resiliency and Maximized Security [FARMS]

FARMS VISION

Create a global AgTech Engine characterized by a flourishing ecosystem where new knowledge is co-designed into new technologies, services, and startups to address stressors impacting food insecurity and to establish equitable agricultural opportunity.

LEADERSHIP	DEIA	INNOVATION
Develop collaborative coalition. Change nimbly in response to stakeholder needs.	Approach DEIA broadly and holistically. Integrate diverse worldviews across FARMS.	Be future-focused. Dream Big. Support strategic risk-taking.

Northern Plains AgTech Engine for Food systems Adapted for Resiliency and Maximized Security [FARMS]