



# Joint Committee on Appropriations

February 6, 2025



**SOUTH DAKOTA MINES®**

# Thank you for your support of South Dakota Mines!

- Nucor Mineral Industries  
Building Construction
- Salary Policy Increase
- Tuition Freeze  
Partnership
- Center for Quantum  
Information Science &  
Technology



# Benefits to South Dakota

- **Skilled Workforce Development:**
  - High placement rate and average starting salaries boost South Dakota's industries and income tax revenues.
- **Research and Innovation Excellence:**
  - Research activity fuels advancements, benefits state industries, and creates technical jobs.
- **Entrepreneurial Growth:**
  - Startups and spin-offs foster job creation, innovation, and talent retention within the state.
- **Community Engagement:**
  - Impactful volunteerism, collaborative partnerships, and campus events enhance community relationships.

**\$169  
Million**  
Annual Impact to  
South Dakota





**84%**  
**Retention Rate**



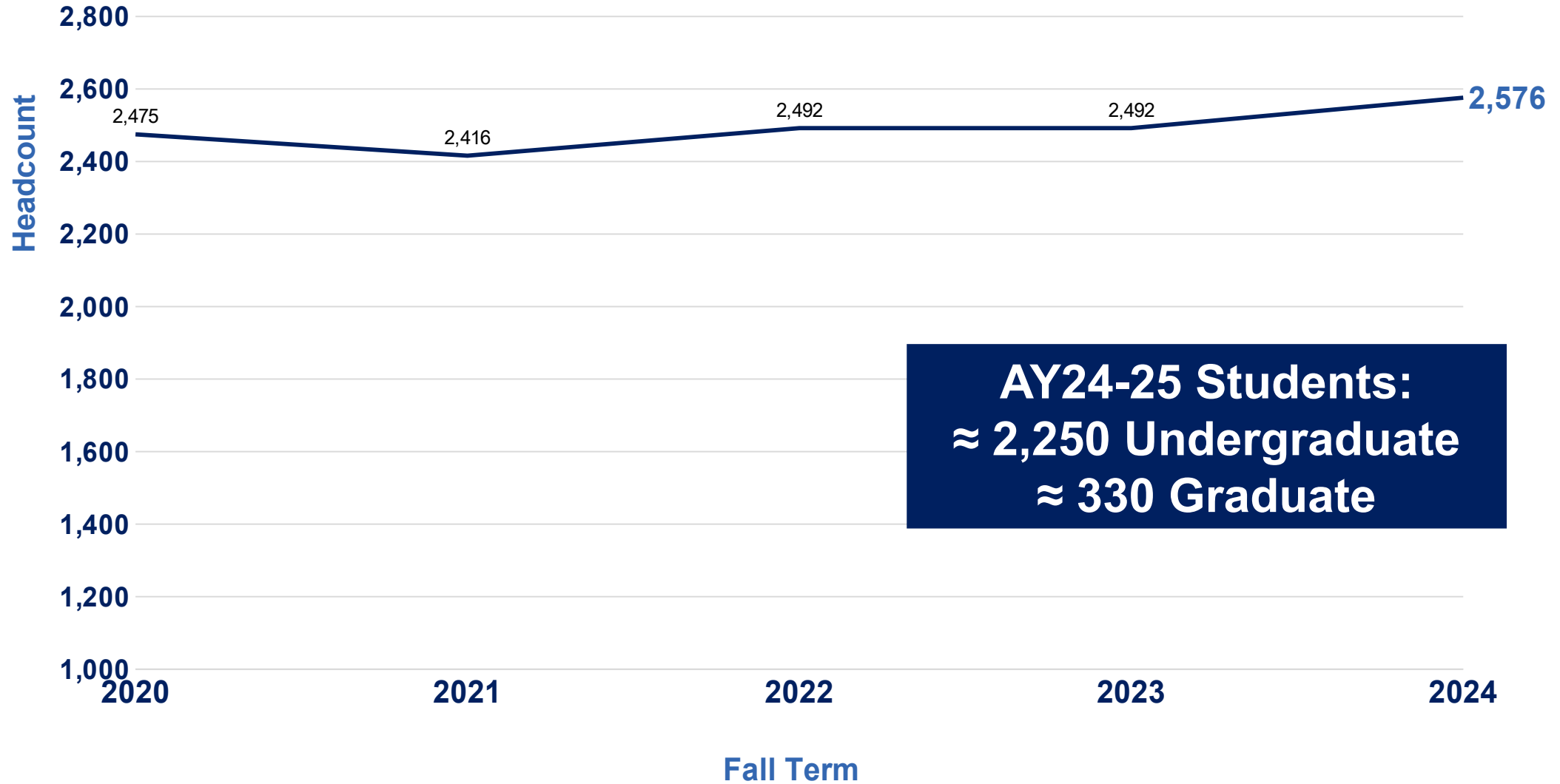
**≈ 480**  
**AY23-24 Graduates**

# Top Degree Programs

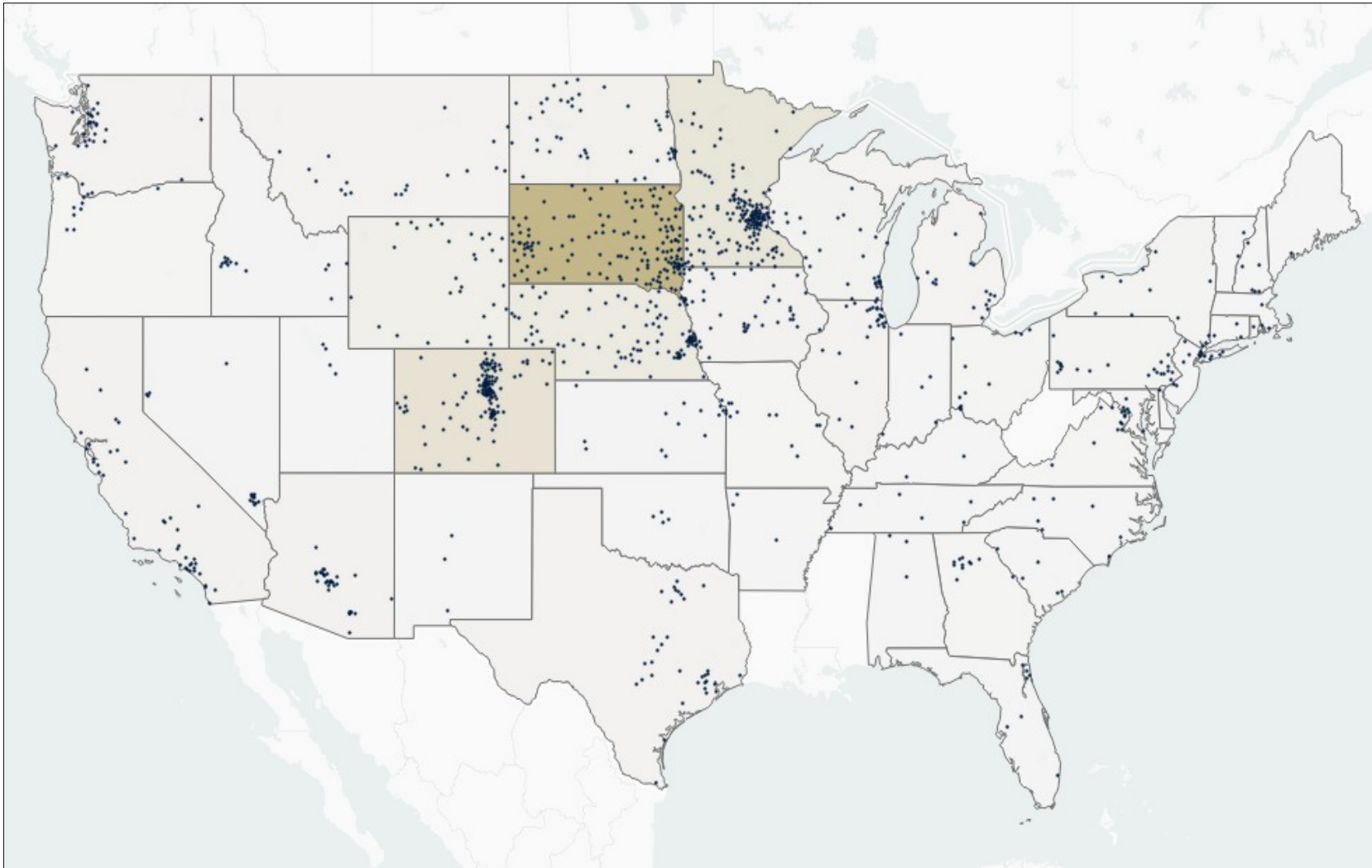
- Mechanical Engineering
- Computer Science
- Civil Engineering
- Metallurgical Engineering
- Electrical Engineering



# Total Enrollment Trend



# Current Enrollment Map



# AY23 Placement

Placement for grads with internship experience

100%

97%

Overall placement rate

Our AY23 graduates are working for 190 unique companies across 40 states plus Canada, the United Kingdom, and Germany, **including 54 South Dakota companies, 34 of which are in the Black Hills area**



Average starting salary:

**\$73,547**



Highest starting salary:

**\$118,000**

# Academic Affairs Updates



- New minor in Quantum Information Science
- Gateway to Engineering certificate
- Planning BS in Data Science
- Planning BS in Robotics
- Articulation agreements with community colleges in Colorado, Wyoming, & South Dakota





# Opportunity Center

- Accessibility & Title IX Services
- Campus Ministries
- Career Services
- Co-Curricular Programs
- Counseling Services
- Ivanhoe International Center & Education Abroad
- Multicultural Affairs
- Residence Life
- Rich & Trudy Wells Veterans Resource Center
- Tutoring, Mentoring, and Academic Support
- Women in Science & Engineering



# Facilities Needs



## Maintenance and Repair Costs

**\$27.4M in current deferred maintenance projects.**  
**Reducing that by \$860K will make it challenging to address much-needed repairs.**



## Insurance for Academic Buildings

**Insurance premiums have been skyrocketing.**  
**They have increased 424% from \$74K in FY19 to \$316K in FY24.**



# Nucor Mineral Industries Building



**Ribbon cutting will be held  
April 25, 2025**



# Increasing Efficiencies

## Combined Academic Departments

- Electrical/Computer Engineering, Computer Science
- Atmospheric & Environmental Sciences, Civil & Environmental Engineering
- Nanoscience & Biomedical Engineering
- Geology, Geological/Mining Engineering

## Partnerships with BHSU

- Currently sharing HR Director, Purchasing Director, Title IX Coordinator, and Sustainability Coordinator
- Looking at sharing additional positions

## Future Planning

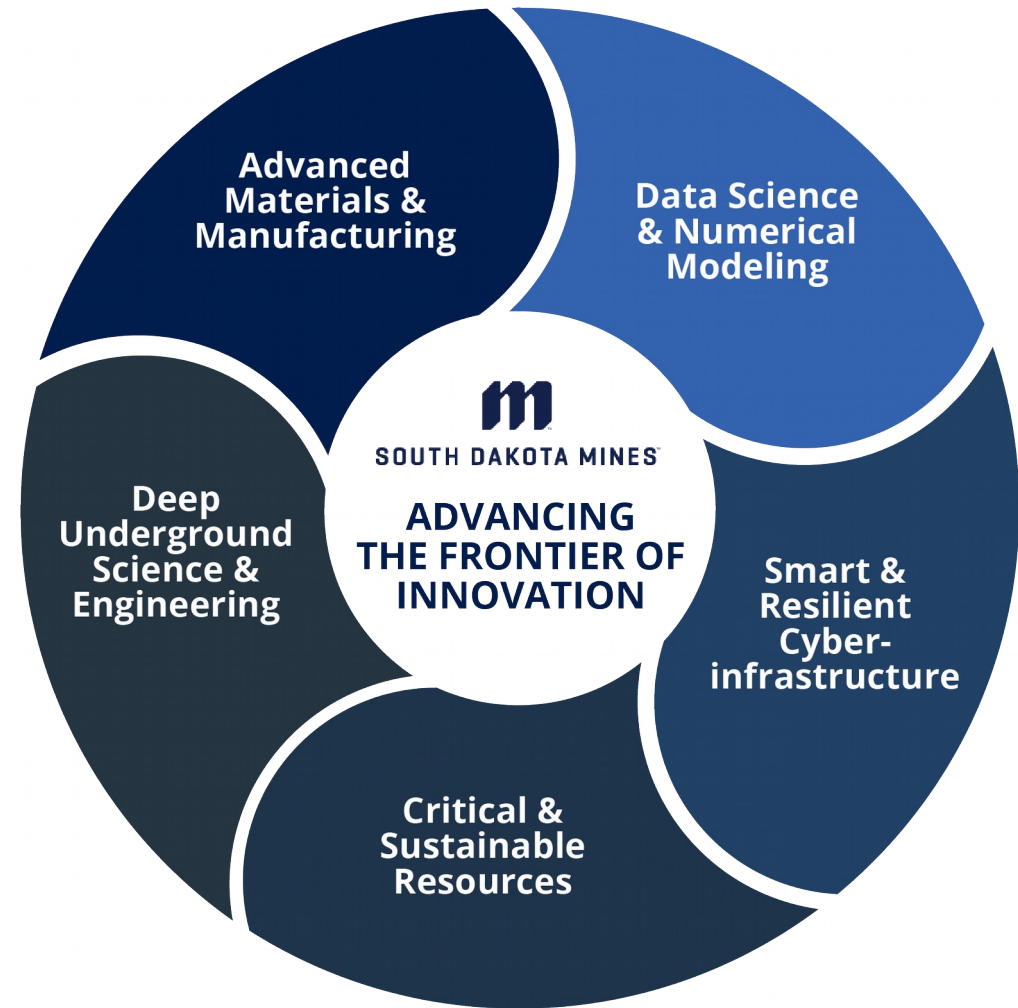
- Working to incorporate AI into our back-of-the-house processes to drive efficiency



# Research Affairs

**The majority of  
SDM's research  
grants come from:**

- 1. NSF (38%)**
- 2. DOD (22%)**
- 3. NASA (9%)**



# Innovation by the Numbers



- **16** first-place awards in Governor's Giant Vision Competition since 2011
- **\$30,000+** in annual prizes for student startups and entrepreneurial endeavors by alumni or industry sponsors
- **40+** Entrepreneurs-in-Residence
- **Dozens** of students trained annually through innovation cycle



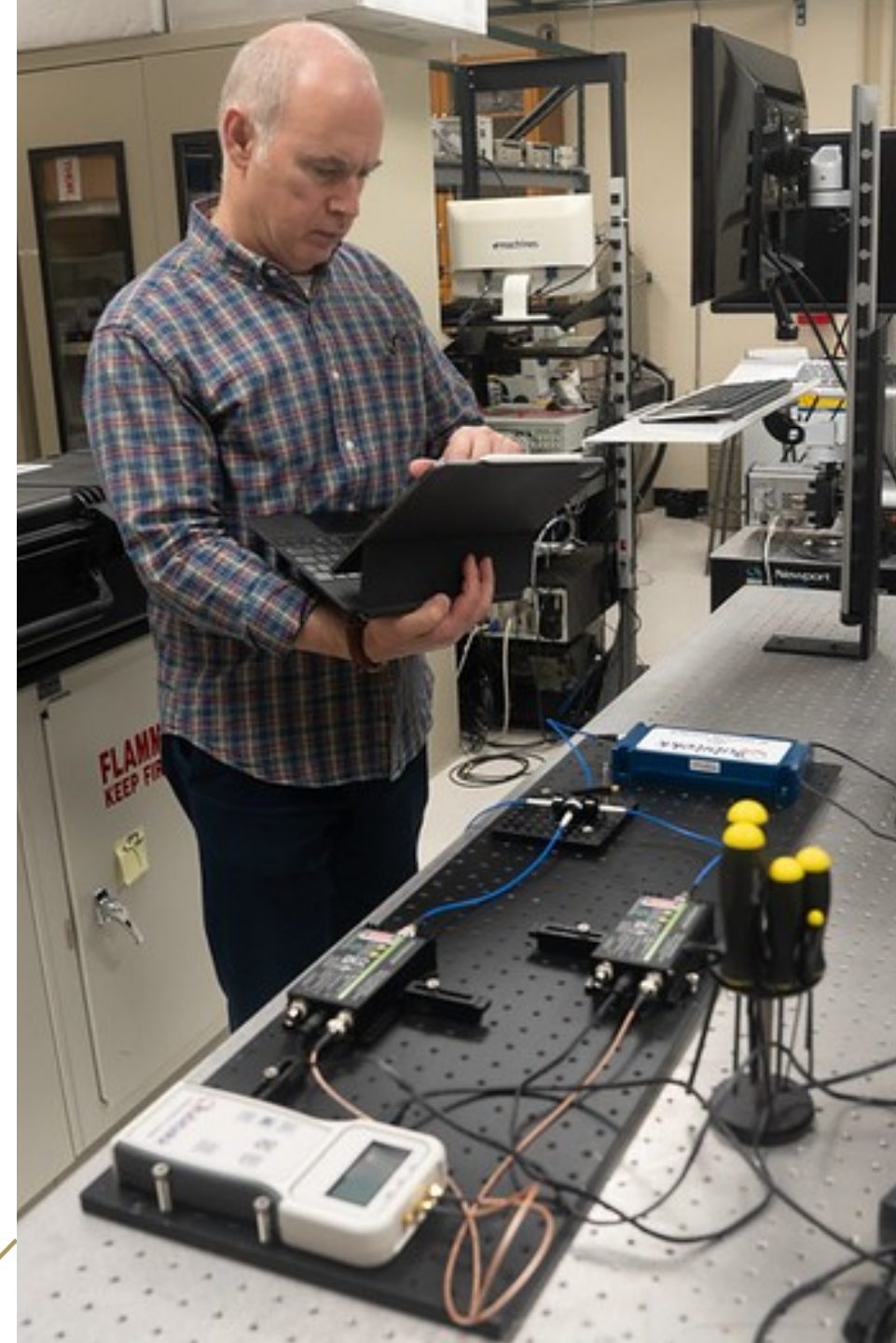
# SDM is a Trusted Partner in National Security





# Quantum Information Science and Technology

- Received \$1.2M for quantum research from the Legislature in FY24
- Awarded a \$5M NSF grant to establish a Quantum Materials Institute
- Hired faculty member who is an expert in 2D materials and the development of secure quantum communications technology
- Purchasing a quantum cascade laser, a specialized microscope system, and a 2D materials alignment system







Thank you!

 SOUTH DAKOTA MINES®