

South Dakota School of Mines and Technology

FY11 Joint Appropriations Committee Presentation



Student Success

- 98% of graduates find jobs within one year of graduation or attend graduate school
- Average starting salary offer for 2009 graduates was \$56,215
- 2009 graduates employed in South Dakota up 8% from 2008

Freshman to Sophomore Retention

- 2004 to 2005 = 72%
- 2008 to 2009 = 83%*
(86% retained within Regental Universities)



First-time Freshman Quality Maintained

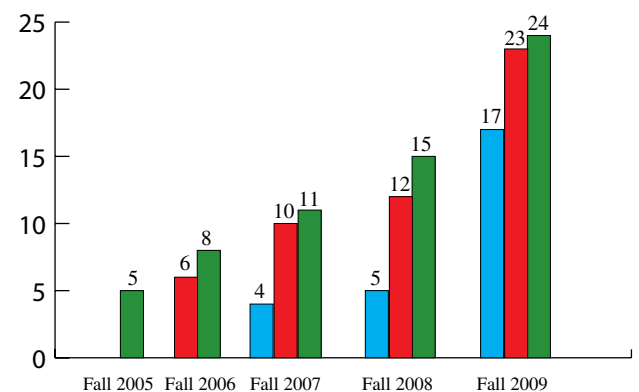
- ACT Composite Average 26.1
- ACT Math Average 27.0
- High School GPA Average 3.49

2009 Enrollment Increase

- Total = +6%***
- Freshman = +14%
 - Graduate = +8%

*Highest in the system

New Ph.D. Program Enrollments



Chemical and Biological Engineering Biomedical Engineering* NanoScience and Engineering

*Includes M.S. and Ph.D.; additional students at USD

Renewable Energy Research Facility



Through this partnership with Black Hills Power, there is an unprecedented opportunity to provide meaningful research experiences for our engineering and science students and to establish collaborative outreach activities for the community and K-12 teachers and students.

Native American Initiatives



GEAR UP (Gaining Early Awareness and Readiness for Undergraduate Programs)

- 220 Students, 9th through 12th grade
- ~85% Native American
- Nearly 100% graduate from high school
- 87% enroll in college, 9% join the military
- 17th year for summer residential program

Build a Computer Program

- Partnership with Rapid City area schools

Tiospaye in Engineering Program

- \$600,000 scholarship program

Great Plains Tribal Chairman's Association

- Hosted meeting of tribal leaders

American Indian Science and Engineering Society

- Distinguished Chapter of the Year Award
- Recruitment and Retention Chapter Award



Economic Impact

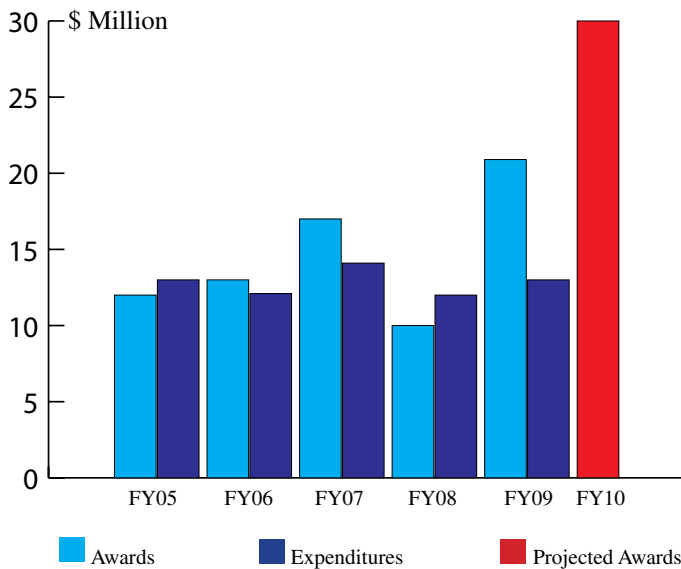
DUSEL Contribution to South Dakota Economy

- Funding Received in 2010 = \$19.5 million
- Projected SDSM&T DUSEL personnel for 2010 = 26

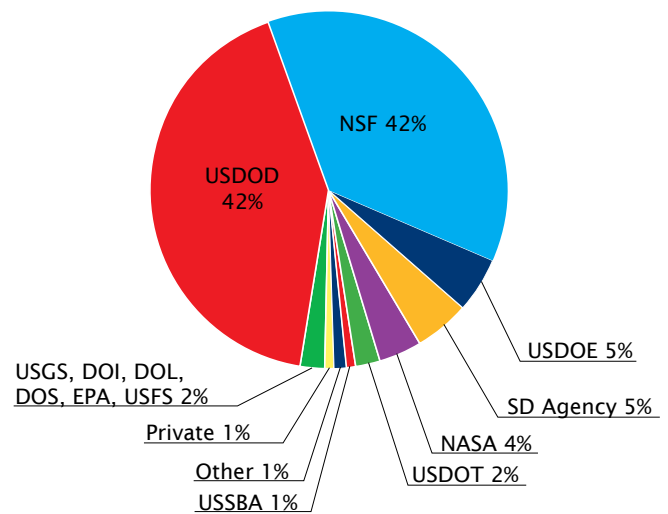


Projected Total FY10 Research Awards — More than \$30 million (up from \$20.9M in FY09)

Awards and Expenditures



FY09 Research Funding Sources



Black Hills Business Development Center

- 13 technology-based companies with strong ties to SDSM&T
- 100 (50 students) employees
- Located on SDSM&T Campus

Western South Dakota Businesses Technologically Related to SDSM&T

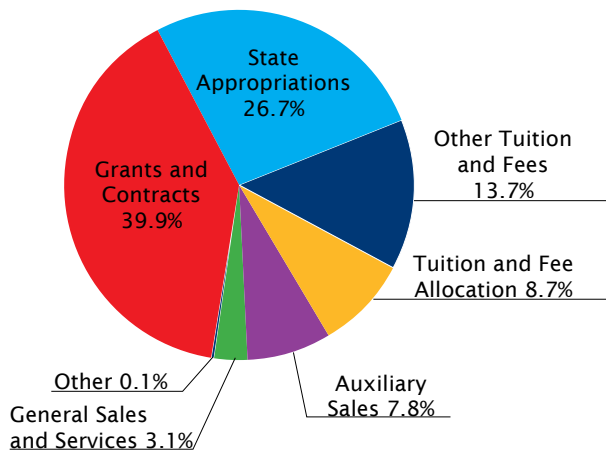
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|--|--|
| <ul style="list-style-type: none"> • BH Bio Fuels • Black Hills Nano Systems • Bitter Creek Energy Services • C-Lock • Controlled Systems Technologies • DakotaFire • Dakota Power • EMCC • HF Webster • Hydro-Tech • Innovative Processes and Systems • KL Energy | <ul style="list-style-type: none"> • Mastel Precision • MEMSense • NCH Corporation • Phase Technologies • Reforce • RESPEC • RPM & Associates • SYMCOM • TEPCO Corp. • Tri-Tech Manufacturing, Inc., Fiber Switch Technologies and First Step Engineering • Zyvex |
|--|--|

SDSM&T Contribution to South Dakota Economy

- In FY07 every state dollar invested in the School of Mines resulted in \$7.57 in statewide economic activity.

Fiscal Opportunities

Operating Budget FY10



Physics Ph.D.

- Critical for Deep Underground Science and Engineering Lab (DUSEL) and economic development
- \$970,000 request for SDSM&T, USD, SDSU
- SDSM&T's portion is \$439,640 and 7.0 FTE

DUSEL Bridge Money — support the Governor's recommendation of \$5.4 million

Other System Priorities

- Health Insurance — \$705,297 to keep pace
- SD Opportunity Scholarships — \$200,000 to keep pace
- REED computing for Research, Education, Economic Development — \$106,241

Budget Challenges

- Base budget funding — utilities shortfall now over \$300,000 annually
- Loss of performance funding

Salary Competitiveness

Average Faculty Salary

| | SDSM&T Avg | Okla Avg salary | Avg% of Okla |
|------|------------|-----------------|--------------|
| FY08 | \$70,580 | \$102,832 | 68.6% |
| FY09 | \$72,350 | \$108,072 | 66.9% |



SOUTH DAKOTA



SCHOOL OF MINES
& TECHNOLOGY