

South Dakota Board of Regents
Appropriations Budget Hearings – January 31, 2017
Question and Answers

1. How many technical institute students are transferring to regental institutions?
See attachment: FY17 Transfers from Technical Institutes (Fact Book page 22)
2. Can you track the dual credit students and determine how many of them are ending up in remedial courses?
See attachment: Dual Credit and Remedial Enrollments
3. Dr. Rush had a number in his slide of the total federal money brought into the state. Can you break that number down into grants and contracts and financial aid?
*Slide 14 showed that SD receives \$272M in federal money.
Page 33 of the Fact Book – Grants and Contracts Federal Expenditures = \$67M
Page 41 of Fact Book – Federal Student Aid = \$205M*
4. On your FTE counts, can you tell us how many of the faculty by campus are full-time faculty and how many are adjuncts?
See attachment: Permanent Faculty and Adjuncts
5. Can you identify the criteria that were used to eliminate the 32 programs identified in the BOR slide 39?
See attachment: Program Terminations
6. Need an unduplicated count of enrollments by campus.
*The headcount for the system can be unduplicated. That information is provided in Table 1 of the attachment. FTE is another way to look at enrollments which weights students based on the number of credits taken. Tables, 5, 6, and 7 provided FTE information which measures intensity of enrollments.
See attachment: Enrollment Information*
7. Total E-Learning budgets for five years along with total students served.
See attachment: NSU E-Learning Budget
8. Total E-Learning enrollments by district.
See attachment: E-Learning Schools and Students Served.
9. Supplemental
Provide a chart that shows the increase in tuition alongside the increases in M&R. This chart shows how the regents have made investing in maintenance and repair a priority.

**South Dakota Board of Regents
Dual Credit Students Enrolling in Remedial Courses**

Of the 1,077 students in the original HSDC student roster, from Fall 2014 through Summer 2015, 59% of students were found in our extracts in Summer 2015 or Fall 2015. Out of those students, a total of 58 students, or 5.39%, were enrolled in at least one remedial course (see Table 1). Remedial Courses were defined as: MATH 021, MATH 095, MATH 101/101L, MATH 102/102L, MATH 103/103L, ENGL 031, ENGL 032, ENGL 033, READ 041, UC 011.

*Table 1
HSDC Students by Remedial, Non-Remedial,
& Non-SDBOR Enrollment*

<i>Enrollment Type</i>	<i>Number of Students</i>	<i>Percentage of Students</i>
<i>SDBOR – Remedial</i>	58	5.39%
<i>SDBOR – Non-Remedial</i>	577	58.96%
<i>Non-SDBOR</i>	442	41.04%
Total	1,077	100.00%

Those students who were taking remedial courses during these two terms were students who qualified into the program based on either their class rank or high school GPA. Of those students enrolled in remedial courses after participating in the HSDC program, most are enrolled in a remedial math course. (See Table 2). These students would have only taken non-math related courses through the program since they wouldn't have been able to qualify for College Algebra. There are also a few students who needed to enroll in READ 041, ENGL 032, or ENGL 033.

*Table 2
Remedial Enrollment of HSDC Students by Course (with MATH 103/103L)*

<i>Course</i>	<i>Enrollment</i>	<i>Percentage</i>
<i>MATH 095: Pre-College Algebra</i>	25	38.46%
<i>MATH 102/102L: College Algebra & Lab</i>	12	18.46%
<i>ENGL 032: Basic Writing</i>	9	13.84%
<i>READ 041: Reading for College Success</i>	8	12.31%
<i>ENGL 033: Basic Writing</i>	7	10.77%
<i>MATH 101/101L: Intermediate Algebra & Lab</i>	2	3.08%
<i>MATH 021: Basic Algebra</i>	1	1.54%
<i>MATH 103/103L: Quantitative Literacy & Lab</i>	1	1.54%
Total	65	100.00%

South Dakota Board of Regents University System Enrollment

The following enrollment information is pulled from the annual report *Enrollment Trends in the University System*. That report can be found at: https://www.sdbor.edu/the-board/agendaitems/2014AgendaItems/2016-December/6_L_BOR1216.pdf

Overall Enrollment

Headcount enrollment and full-time equivalent (FTE) enrollment are the university system's two primary measures of student enrollment. Table 1 displays the university system's official headcount and FTE figures, as reported in SDBOR Fact Book publications, as well as unduplicated headcount.

Table 1
University System Enrollment

	Headcount	Unduplicated	FTEs
Fall 2007	32,148	29,457	24,512
Fall 2008	32,943	30,071	24,926
Fall 2009	33,779	30,449	25,468
Fall 2010	36,440	32,717	26,625
Fall 2011	36,103	32,560	26,719
Fall 2012	36,430	32,681	26,468
Fall 2013	36,365	32,892	26,782
Fall 2014	36,532	33,363	26,736
Fall 2015	36,439	33,390	26,684
Fall 2016	36,531	33,531	26,599

South Dakota Board of Regents University System Enrollment

Enrollment by University

In the following tables, headcount enrollments are split into two separate categories: (1) on-campus at a given university, and (2) off-campus at a given university.¹ The “on-campus” category includes all students taking at least one face-to-face course at a given main campus; the “off-campus” category includes all other enrolled students. Students will be counted more than once when taking courses from multiple campuses.

Table 2
University Headcount, On-Campus

	BHSU	DSU	NSU	SDSMT ¹	SDSU	USD	System
Fall 2010	2,673	1,267	2,014	2,320	10,137	6,112	24,523
Fall 2011	2,547	1,261	2,015	2,284	9,999	6,029	24,135
Fall 2012	2,445	1,277	1,894	2,365	9,777	6,116	23,874
Fall 2013	2,398	1,272	1,907	2,586	9,864	6,118	24,145
Fall 2014	2,206	1,241	1,719	2,738	9,896	6,111	23,911
Fall 2015	2,152	1,261	1,615	2,758	9,817	6,179	23,782
Fall 2016	2,073	1,303	1,557	2,745	9,836	6,148	23,662

Table 3
University Headcount, Off-Campus

	BHSU	DSU	NSU	SDSMT ¹	SDSU	USD	System
Fall 2010	2,049	1,834	1,282	34	2,679	4,039	11,917
Fall 2011	1,868	1,841	1,565	27	2,726	3,941	11,968
Fall 2012	1,962	1,833	1,728	59	2,806	4,168	12,556
Fall 2013	2,066	1,857	1,436	54	2,690	4,117	12,220
Fall 2014	2,283	1,806	1,861	60	2,661	3,950	12,621
Fall 2015	2,243	1,884	1,881	85	2,772	3,792	12,657
Fall 2016	2,171	1,887	2,030	114	2,777	3,890	12,869

¹ These categories are mutually exclusive and cumulative; added together, they sum to the same headcount figures presented in SDBOR Fact Book publications. Students are assigned to levels in ascending hierarchical fashion, meaning that a student taking courses both on-campus and off-campus will be counted as an on-campus student.

Table 4

University Headcount, Total (Duplicated)

	BHSU	DSU	NSU	SDSMT ¹	SDSU	USD	System
Fall 2010	4,722	3,101	3,296	2,354	12,816	10,151	36,440
Fall 2011	4,415	3,102	3,580	2,311	12,725	9,970	36,103
Fall 2012	4,407	3,110	3,622	2,424	12,583	10,284	36,430
Fall 2013	4,464	3,129	3,343	2,640	12,554	10,235	36,365
Fall 2014	4,489	3,047	3,580	2,798	12,557	10,061	36,532
Fall 2015	4,395	3,145	3,496	2,843	12,589	9,971	36,439
Fall 2016	4,244	3,190	3,587	2,859	12,613	10,038	36,531

¹ The total student head count, 36,531, is the same as that reported in the BOR FY17 Fact Book. The Fact Book counts include all state state-support students in the on-campus counts. This would include nursing, medical school, and pharmacy offered at off-campus sites. This report includes those students in the off-campus counts.

South Dakota Board of Regents University System Enrollment

The above report focuses on headcount enrollment – which measures enrollment *coverage* – as its primary measure of interest. However, full-time equivalent enrollment – which measures enrollment *intensity* – is another important indicator of student participation in the university system. Below, enrollments are reported below with full-time equivalent enrollment data.

Table 5
University FTE, On-Campus

	BHSU	DSU	NSU	SDSMT ¹	SDSU	USD	System
Fall 2010	2,241	1,076	1,693	1,953	8,937	5,345	21,245
Fall 2011	2,101	1,037	1,733	1,945	8,641	5,331	20,787
Fall 2012	1,946	1,043	1,607	2,016	8,246	5,279	20,137
Fall 2013	1,893	1,017	1,583	2,183	8,275	5,277	20,229
Fall 2014	1,680	992	1,451	2,327	8,298	5,268	20,015
Fall 2015	1,643	994	1,358	2,329	8,110	5,312	19,746
Fall 2016	1,626	1,035	1,287	2,305	8,089	5,143	19,485

Table 6
University FTE, Off-Campus

	BHSU	DSU	NSU	SDSMT ¹	SDSU	USD	System
Fall 2010	1,000	632	404	44	1,576	1,725	5,380
Fall 2011	1,033	710	469	38	1,780	1,903	5,933
Fall 2012	1,090	685	550	55	1,907	2,046	6,332
Fall 2013	1,169	724	545	51	1,945	2,119	6,553
Fall 2014	1,240	748	693	64	1,882	2,095	6,721
Fall 2015	1,240	864	637	76	2,032	2,089	6,938
Fall 2016	1,199	861	666	89	2,040	2,257	7,112

Table 7
University FTE

	BHSU	DSU	NSU	SDSMT ¹	SDSU	USD	System
Fall 2010	3,241	1,708	2,097	1,997	10,512	7,069	26,625
Fall 2011	3,135	1,746	2,202	1,982	10,421	7,234	26,719
Fall 2012	3,036	1,728	2,157	2,070	10,153	7,325	26,468
Fall 2013	3,062	1,741	2,128	2,235	10,220	7,396	26,782
Fall 2014	2,920	1,740	2,144	2,391	10,180	7,362	26,736
Fall 2015	2,882	1,859	1,995	2,405	10,141	7,401	26,684
Fall 2016	2,825	1,897	1,953	2,394	10,130	7,400	26,600

¹ The total FTE, 26,600, is the same as that reported in the BOR FY17 Fact Book. The Fact Book counts include all state state-support students in the on-campus counts. This would include nursing, medical school, and pharmacy offered at off-campus sites. This report includes those students in the off-campus counts.

NSU Center for Statewide E-learning 2016-17

# of Schools	School Districts	# of Students
1	Aberdeen Central School District	15
2	Aberdeen Roncalli School District	40
3	Agar-Blunt-Onida School District	52
4	Alcester-Hudson School District	34
5	Andes Central School District	13
6	Arlington School District	14
7	Armour School District	36
8	Baltic School District	3
9	Belle Fourche School District	14
10	Beresford School District	31
11	Bison School District	31
12	Bowdle School District	1
13	Brentwood Colony (via Faulkton) School District	8
14	Britton-Hecla School District	13
15	Brookings School District	9
16	Canton School District	1
17	Chamberlain School District	35
18	Chester Area School District	2
19	Colman-Egan School District	6
20	Colome Consolidated School District	3
21	Corsica-Stickney School District	15
22	Dakota Christian (via Platte-Geddes) School District	12
23	Dakota Valley School District	3
24	Dell Rapids School District	3
25	Deubrook School District	35
26	Doland School District	18
27	Douglas School District	2
28	Dupree School District	18
29	Edgemont School District	5
30	Edmunds Central School District	6
31	Elk Mountain School District	1
32	Elk Point-Jefferson School District	21
33	Elkton School District	36
34	Ethan School District	6
35	Eureka School District	15
36	Faith School District	8
37	Faulkton Area School District	9
38	Flandreau School District	1
39	Frederick Area School District	11
40	Garretson School District	1
41	Gettysburg School District	5
42	Groton Area School District	25
43	Haakon School District	3
44	Hamlin School District	2
45	Hanson School District	24
46	Harrisburg School District	9
47	Henry School District	5
48	Herreid School District	18
49	Highmore-Harold School District	16
50	Hitchcock-Tulare School District	21
51	Hot Springs School District	16

52	Hoven School District	7
53	Howard School District	30
54	Huron School District	1
55	Huttenville School District	35
56	Ipswich Public School District	27
57	Iroquois School District	9
58	Jones County School District	11
59	Kadoka Area School District	1
60	Lake Preston School District	1
61	Langford Area School District	6
62	Lennox School District	2
63	Leola School District	8
64	Lyman School District	5
65	Marion School District	7
66	Marty Indian School District	1
67	McCook Central School District	23
68	Meade School District (Sturgis Brown)	4
69	Milbank School District	48
70	Miller School District	1
71	Mobridge-Pollock School District	42
72	Montrose School District	13
73	Mount Vernon School District	2
74	Newell School District	9
75	Northwestern Area School District	24
76	Oldham-Ramona School District	7
77	Parker School District	9
78	Plankinton School District	31
79	Platte-Geddes School District	12
80	Rapid City Stevens School District	4
81	Redfield School District	29
82	Rosholt School District	25
83	Rutland School District	4
84	Scotland School District	7
85	Selby School District	6
86	Sioux Falls Christian School District	1
87	Sioux Falls O'Gorman (via Harrisburg) School District	1
88	Sioux Falls Roosevelt School District	2
89	Sioux Falls Washington School District	2
90	Sisseton School District	16
91	St. Thomas More School District	2
92	Summit School District	3
93	Sunshine Bible (via Miller) School District	1
94	Tea School District	2
95	Timber Lake School District	10
96	Todd County School District	11
97	Tripp-Delmont School District	1
98	Tri-Valley School District	9
99	Viborg-Hurley School District	16
100	Wall School District	22
101	Warner School District	39
102	Watertown School District	6
103	Waubay School District	58
104	Waverly School District	25
105	Webster School District	3
106	White Lake School District	4
107	White River School District	12
108	Winner School District	38

109	Wolsey-Wessington School District	8
110	Woonsocket School District	3
	2016-17 GRAND TOTAL NUMBER OF STUDENTS:	1477

**NORTHERN STATE UNIVERSITY
Center for Statewide E-learning**

Budgets	FY13	FY14	FY15	FY16	FY17
Instructional Cost of High School Classes	\$1,197,171	\$1,311,310	\$1,425,372	\$1,687,234	\$2,687,098
Integrations of E-Learning across the curriculum, teacher education and graduate level programs	\$797,329	\$785,580	\$918,439	\$688,150	\$723,621
Total Budget	\$1,994,500	\$2,096,890	\$2,343,811	\$2,375,384	\$3,410,719
Total FTE	22.20	22.20	23.90	25.40	37.98
Total High School Students Served	1,198	1,112	1,233	1,187	1,477

HEFF Allocation

Tuition Rate Increase

	HEFF Allocation	\$ Change	% Change	% Change		
				BHSU DSU NSU	SDSM&T	SDSU USD
FY06	\$5,822,254					
FY07	\$6,055,144	\$232,890	4.0%	4.0%	4.0%	4.0%
FY08	\$6,297,349	\$242,205	4.0%	4.0%	4.0%	4.0%
FY09	\$6,549,243	\$251,894	4.0%	6.8%	6.8%	6.8%
FY10	\$6,811,213	\$261,970	4.0%	4.0%	4.0%	4.0%
FY11	\$7,083,662	\$272,449	4.0%	8.8%	8.8%	8.8%
FY12	\$11,667,008	\$4,583,346	64.7% (A)	14.5%	14.5%	14.5%
FY13	\$14,250,358	\$2,583,350	22.1%	8.7%	13.6%	13.6%
FY14	\$15,105,379	\$855,021	6.0%	7.2%	6.9%	6.9%
FY15	\$15,105,379	\$0	0.0% (B)	0.0%	0.0%	0.0%
FY16	\$15,770,016	\$664,637	4.4%	4.4%	8.8%	4.3%
FY17	\$15,770,016	\$0	0.0% (B)	0.0%	0.0%	0.0%
FY18	\$16,181,168	\$411,152	2.6%			

(A) The Board began assessing HEFF on self-support courses.

**South Dakota Board of Regents
FY16 FTE Utilization for Full-Time Faculty and Adjuncts**

INSTITUTION	Permanent Faculty Utilized FTE in FY16	Adjunct/Temporary Faculty Utilized FTE in FY16
BHSU	128.545	14.656
DSU	89.956	7.342
NSU	100.443	8.935
SD MINES	141.66	7.447
SDSU (Including AES/CES)	611.911	18.938
USD (Including SSOM)	436.667	25.843
SYSTEM TOTAL	1509.182	83.161

**South Dakota Board of Regents
Faculty Headcount as of November 2016**

Permanent, full-time benefit eligible	1,532
Permanent, part-time benefit eligible	33
Permanent, less than 20 hours per week, leave eligible	104
Others (Adjuncts, part-time/non benefited)	<u>429</u>
Total	2,098

**South Dakota Board of Regents
Terminated Program Criteria and List of Terminated Programs**

Programs are typically terminated for one of the following reasons:

1. Failure to meet program productivity standards:
 - Associate Degree: 5 graduates a year or 25 during the five-year reporting period.
 - Bachelor's Degree: 5 graduates a year or 25 during the five-year reporting period.
 - Master's Degree: 3 graduates a year or 15 during the five-year reporting period.
 - Professional & Doctoral Degree: 1 graduate a year or 5 during the five-year

2. Program review identification of deficiencies (all programs are reviewed at least once every seven years). This can include program accreditation review recommendations.

3. Changes in industry requirements for the field (e.g., moving from acceptance of a BA/BA to an MA/MS)

4. Low student demand

Terminated Programs

Date	School	Type	Level	Title	Reason
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MAJORS

1	12/16	NSU	Major	Bach.	Sociology (Gerontology Specialization)	Lack of student demand (example: only 2 students enrolled in mnor)
2	12/16	NSU	Major	Associate	Applied Gerontology	Lack of student demand (example: only 2 students enrolled in mnor)
3	8/16	SDSU/NSU	Major	Bach.	Early Childhood Education	Lack of faculty resources at NSU to offer the cooperative program
4	6/16	DSU	Major	Bach.	Professional and Technical Communication	Low enrollment, 5 only students at time of termination plan.
5	6/16	SDSU	Major	Bach.	Biology (Pre-professional Specialization)	New Major in Human Biology makes program redundant
6	6/16	USD	Major	Associate	Nursing	2 year track program, low enrollment as industry changing to BSN degree.
7	5/16	BHSU	Major	Bach./BA	Art	Industry moving to recognition of the BFA, not BA or BS; curriculum redesigned
8	5/16	BHSU	Major	Bach./BS	Art	Industry moving to recognition of the BFA, not BA or BS; curriculum redesigned
9	5/16	BHSU	Major	Bach.	Graphic Design	Industry moving to recognition of the BFA, not BA or BS; curriculum redesigned
10	4/16	SDSU	Major	Bach	Athletic Training	Industry moving to entry level degree at Master's level
11	4/16	USD	Major	Bach	Liberal Studies	Low enrollment, 7 graduates between 2010-2014, 0 current enrollment
12	12/15	NSU	Major	Bach	Art (Advertising Design Specialization)	Recommendation from NASAD (Art accreditation organization) to consolidate specializations
13	12/15	NSU	Major	Bach	Art (Multimedia Design Specialization)	Recommendation from NASAD (Art accreditation organization) to consolidate specializations
14	6/15	BHSU	Major	Associate	Industrial Techology	Low enrollment; lack of student demand; budget efficiencies
15	6/15	BHSU	Major	Associate	Engineering Technology	Low enrollment; lack of student demand
16	6/15	BHSU	Major	Bach	Engineering Technology (Advanced Manufacturing Specialization)	Low enrollment; lack of student demand
17	6/15	BHSU	Major	Bach	Engineering Technology (Construction Technology Specialization)	Low enrollment; lack of student demand

Date	School	Type	Level	Title	Reason
18 6/15	BHSU	Major	Bach	Industrial Technology	Low enrollment; lack of student demand
19 6/15	BHSU	Major	Bach	Applied Technical Science (General Supervision Specialization)	Low enrollment; lack of student demand
20 6/15	BHSU	Major	Bach	Applied Technical Science (Construction Specialization)	Low enrollment; lack of student demand
21 6/15	BHSU	Major	Bach	Applied Technical Science (Manufacturing Specialization)	Low enrollment; lack of student demand
22 6/15	USD	Major	Associate	Dental Hygiene	Industry chane to entry level acceptance of the bachelor's degree
23 4/15	SDSU	Major	Bach/BS	Studio Art	Industry standards moving to BFA and away from BA/BS; curriculum redesigned for BFA
24 4/15	SDSU	Major	Bach/BA	Studio Art	Industry standards moving to BFA and away from BA/BS; curriculum redesigned for BFA
25 4/15	SDSU	Major	Bach	Interior Design	Industry standards moving to BFA and away from BA/BS; curriculum redesigned for BFA
26 4/15	SDSU	Major	Bach/BS	Graphic Design	Industry standards moving to BFA and away from BA/BS; curriculum redesigned for BFA
27 4/15	SDSU	Major	Bach/BA	Graphic Design	Industry standards moving to BFA and away from BA/BS; curriculum redesigned for BFA
28 4/15	SDSU	Major	Bach/BS	Art Education	Industry standards moving to BFA and away from BA/BS; curriculum redesigned for BFA
29 4/15	SDSU	Major	Bach/BA	Art Education	Industry standards moving to BFA and away from BA/BS; curriculum redesigned for BFA
30 4/15	SDSU	Major	Bach	Architectural Studies	Industry standards moving to BFA and away from BA/BS; curriculum redesigned for BFA
MINOR					
1 12/16	NSU	Minor		Gerontology	Lack of student demand (example: only 2 students enrolled in mnor)
2 6/16	SDSU	Minor		Interior Design	Low enrollment, only 12 graduates in last 5 years
3 12/16	USD	Minor		Adapted Physical Education	Classes not offered for give years; aspects now part of a specialization
4 12/16	USD	Minor		Music Education	Curriculum deemed insufficient to help students become better teachers
5 6/15	SDSU	Minor		Biotechnology	Low enrollment, only 10 graduates last 5 years
6 6/15	SDSU	Minor		Geographic Information Systems	Low student deman, low enrollment
GRAD					
1 6/16	USD	Grad	Ed.S.	Curriculum and Instruction	Low enrollment, most students opting for the master's or doctorate program
2 6/15	NSU	Grad	Master's	Training & Development in E Learning	Low enrollment; viable alternative program exists in MEd in Educational Studies
3 6/15	USD	Grad	Master's	Natural Science	Low enrollment; viable alternative programs exist within the system.

**South Dakota Board of Regents
Transfers from SD Technical Institutes to BOR
Fall 2016**

	<u>BHSU</u>	<u>DSU</u>	<u>NSU</u>	<u>SDSM&T</u>	<u>SDSU</u>	<u>USD</u>	<u>Total</u>
Lake Area Technical Institute	1	8	5	0	20	23	57
Mitchell Technical Institute	2	3	0	0	2	7	14
Souteast Technical Institute	1	10	2	0	19	26	58
Western Dakota Technical Institute	<u>16</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>5</u>	<u>10</u>	<u>37</u>
Total	20	22	8	4	46	66	166

Source: FY17 Fact Book Page 22.

BOR \$1,000,000 Research Pool

The \$1,000,000 in research funding appropriated annually to the Board of Regents is utilized to fund two competitive research and development infrastructure building programs geared towards driving economic development in the five industry sectors identified in the [2020 Vision: The South Dakota Science and Innovation Strategy](#)¹.

1. The ***R&D Innovation Grant Program*** is designed to aid institutions in making strategic investments in R&D infrastructure. Institutions may apply for up to \$200,000 of the \$700,000 available annually.
2. The ***R&D Collaboration Grant Program*** seeks to strengthen SD's research infrastructure through the provision of long-term capacity building resources for multi-institutional research collaborations. Multi-institutional collaborations may apply for up to \$900,000 over a three year period.

Both programs solicit proposals through a competitive process, with proposals reviewed by a panel comprised of representatives from the Legislature, Board of Regents, Governor's Office of Economic Development and the State EPSCoR Office. The two programs have had a significant impact on South Dakota's R&D infrastructure in their short four years of existence.

R&D Innovation Grant Program

- 20 awards totaling \$2.8M were leveraged to garner an upfront match of \$3.9M, and an additional \$2.1M in subsequent awards.
- Examples of projects made possible through this program include:
 - o Establishment of the ***BHSU Underground Campus*** at the 4850' level of the Sanford Underground Research Facility – resulted in a \$258,113 NSF REU Award.
 - o Multi-year ***Human Nutrition and Wellness Collaboration*** between Sanford Health and SDSU – resulted in over \$900K in additional federal awards.
 - o Significant ***Cyber-Security Research Infrastructure*** enhancements at DSU, which have served to advance their relationship with the NSA.
 - o Acquisition of a ***High Performance Computing Cluster*** at USD.
 - o Creation of ***Laboratories for Large Scale Production of Electrospun Nanofibers and Electrochemical Testing of Energy Storage and Generation Devices*** at SDSMT, resulted in \$800,000 in NASA funding and \$167,000 from industry collaboration.

R&D Collaboration Grant Program

- The Center for ***Security Printing and Anti-Counterfeiting Technology (SPACT)***, which is comprised of researchers from SDSMT, USD and SDSU, was established in December of 2014 as a result of a three year, \$900K award under this program.
 - o SPACT has secured over \$1.7M in external funding, with an additional \$2M in pending proposals.
- The ***Surface Engineering Research Center (SERC)***, which is comprised of researchers from SDSMT, SDSU and USD, was established in FY17 as result of a three year, \$900,000 award under this program.

¹ Value Added Agriculture and Agribusiness; Energy and Environment; Materials and Advanced Manufacturing; Human Health and Nutrition; and Information Technology/Cyber-Security/Information Assurance.

R&D Innovation Activity - \$700K Annually

	FY14	FY15	FY16	FY17	Totals
BHSU					
Requested	\$132,285	\$197,950	\$133,350	\$126,759	\$590,344
Awarded	\$117,846	\$125,000	\$110,454	\$0	\$353,300
Percent Funded	89%	63%	83%	0%	60%
Percent of Total Funding	17%	18%	16%	0%	13%
DSU					
Requested	\$185,514	\$108,000	\$0	\$191,600	\$485,114
Awarded	\$40,000	\$90,000	\$0	\$191,600	\$321,600
Percent Funded	22%	83%	-	100%	66%
Percent of Total Funding	6%	13%	0%	27%	11%
NSU					
Requested	\$42,154	\$13,000	\$0	\$0	\$55,154
Awarded	\$42,154	\$13,000	\$0	\$0	\$55,154
Percent Funded	100%	100%	-	-	100%
Percent of Total Funding	6%	2%	0%	0%	2%
SDSM&T					
Requested	\$200,000	\$200,000	\$200,000	\$200,000	\$800,000
Awarded	\$200,000	\$150,000	\$200,000	\$200,000	\$750,000
Percent Funded	100%	75%	100%	100%	94%
Percent of Total Funding	29%	21%	29%	29%	27%
SDSU					
Requested	\$199,999	\$200,000	\$200,000	\$200,000	\$799,999
Awarded	\$100,000	\$170,000	\$189,546	\$200,000	\$659,546
Percent Funded	50%	85%	95%	100%	82%
Percent of Total Funding	14%	24%	27%	29%	24%
USD					
Requested	\$200,000	\$200,000	\$200,000	\$200,000	\$800,000
Awarded	\$200,000	\$152,000	\$200,000	\$120,400	\$672,400
Percent Funded	100%	76%	100%	60%	84%
Percent of Total Funding	29%	22%	29%	17%	24%

COMPETITIVE RESEARCH GRANT PROGRAM

The Competitive Research Grant Award program was established in collaboration with Governor Rounds in conjunction with his 2010 Research Initiative to strengthen South Dakota's research competitiveness and to generate commercial activity derived from research. The primary goal of the program was to give university faculty an opportunity to start a sustainable research program and to help build research capacity in their department. During the first year of the program, a total of 53 proposals were received. To provide release time from teaching, funding was requested for the top 19 proposals to represent 25% of the faculty members' nine month salary, plus one summer month (excluding all indirect costs). The funding was matched (25%) by the university to provide 50% release time and two summer months of salary to the awardees to do research. For FY07 and FY08 a similar approach was employed to award just under \$500,000 each year to approximately 20 faculty members throughout the Regental system.

For FY09, the Research Affairs Council recommended that a number of minor changes be applied to the annual Request for Proposals, most notably: 1) the total amount of the awards was increased to \$100,000 rather than aligning with 25% of a faculty member's salary; 2) allow funds to be used for faculty salaries, post-doctoral assistants, startup packages, graduate students, and equipment in support of the particular research project; and 3) give emphasis to awardees who do not have a record of success with external funding agencies or who are just getting started in their research career. In FY11, two other modifications were made to the RFP to eliminate the 1:1 match required by the institution and focus applicant eligibility toward those within the first four years of full-time tenure track employment. Most recently for FY14 the pool of funds split the CRG awards into two different amounts (\$25,000 and \$100,000) to provide a larger number of faculty an opportunity to compete for funding under this program.

FY17 CRG Awards

The Request for Proposals (RFP) for the FY17 Competitive Research Grant Awards was posted on February 5, 2016, and a total of 34 proposals were submitted by researchers within the Regental system by the April 1 deadline. Each proposal was assigned three reviewers to evaluate and provide feedback on the proposals. Reviews were completed on May 13th, and letters to both award recipients and non-recipients were mailed on June 2nd. Award winners for this year include:

Dakota State University

- Dr. Insu Park, Information Systems – “Development of Clinical Information Systems (CIS) Resilience Index in the Context of Emergency Events” (Grant Award: \$24,678)

South Dakota School of Mines & Technology

- Dr. Cassandra Degen, Mechanical Engineering – “Physics-Based Modeling to Advance Research of Innovative Composite Joint Technologies” (Grant Award: \$99,425)

South Dakota State University

- Dr. Mark Messerli, Biology and Microbiology – “Constructing a Prototype for Automated Pancreatic Islet Sorting and Screening” (Grant Award: \$24,996)

- Dr. Joshua Reineke, Pharmaceutical Sciences – “Desmoplastic Pancreatic Cancer Model Development and Application to Novel Therapeutic Screening” (Grant Award: \$93,000)
- Dr. Severine Van Slambrouck, Chemistry and Biochemistry – “Investigation of the role of ST6GAL2 in the metastatic behavior of Hs578Ts(i)8 triple-negative breast cancer cells” (Grant Award: \$93,000)

University of South Dakota

- Dr. Joel Sander, Physics – “Detecting Dark Matter with the SuperCDMS Experiment” (Grant Award: \$24,996)
- Dr. Zhongkui Hong, Biomedical Engineering – “Biomechanics of vascular smooth muscle cell in atherosclerosis” (Grant Award: \$93,000)

Since FY06 a total of 470 Competitive Research Grant proposals have been submitted with 114 awards totaling approximately \$5.4 million awarded over the past 12 years (see Table 1). Tables 2 and 3 provide institutional level grant proposal and award numbers since the program was developed.

Table 1
Total Submissions, Awards, and Funding Allocations for the Competitive Research Grant Award Program

<i>Fiscal Year</i>	<i>Total Submissions</i>	<i>Total Awards</i>	<i>Total Allocation</i>
2006	53	19	\$444,293
2007	35	20	\$441,760
2008	36	15	\$376,377
2009	31	6	\$499,450
2010	49	6	\$480,992
2011	35	7	\$528,351
2012	32	5	\$450,000
2013	52	6	\$438,375
2014	37	7	\$431,503
2015	46	8	\$432,232
2016	30	8	\$450,513
2017	34	7	\$453,095
Total	470	114	\$5,426,941

Table 2
Total Competitive Research Grant Requests by Each Regental Institution

<i>Fiscal Year</i>	<i>BHSU</i>	<i>DSU</i>	<i>NSU</i>	<i>SDSM&T</i>	<i>SDSU</i>	<i>USD</i>	<i>System</i>
2006	5	4	1	8	22	13	53
2007	1	5	2	5	12	10	35
2008	0	5	2	11	12	6	36
2009	1	2	1	10	9	8	31
2010	2	0	2	7	22	16	49
2011	3	3	0	7	10	12	35
2012	0	2	2	3	14	11	32
2013	2	0	2	12	19	17	52
2014	0	1	2	16	9	9	37
2015	3	3	2	7	20	11	46
2016	3	1	0	12	8	6	30
2017	0	1	1	12	12	8	34
Total	20	27	17	110	169	127	470

Table 3
Total Competitive Research Grant Allocations for Each Regental Institution

<i>Fiscal Year</i>	<i>BHSU</i>	<i>DSU</i>	<i>NSU</i>	<i>SDSM&T</i>	<i>SDSU</i>	<i>USD</i>	<i>System</i>
2006	\$15,600 ⁽¹⁾	**	**	\$107,611 ⁽⁵⁾	\$236,880 ⁽⁹⁾	\$84,202 ⁽⁴⁾	\$444,293 ⁽¹⁹⁾
2007	\$15,847 ⁽¹⁾	\$68,675 ⁽³⁾	\$15,925 ⁽¹⁾	\$119,703 ⁽⁵⁾	\$166,963 ⁽⁸⁾	\$54,647 ⁽²⁾	\$441,760 ⁽²⁰⁾
2008	**	\$71,628 ⁽³⁾	**	\$81,670 ⁽³⁾	\$208,054 ⁽⁸⁾	\$15,025 ⁽¹⁾	\$376,377 ⁽¹⁵⁾
2009	**	**	**	\$143,328 ⁽²⁾	\$183,668 ⁽²⁾	\$172,454 ⁽²⁾	\$499,450 ⁽⁶⁾
2010	**	**	\$37,710 ⁽¹⁾	\$82,463 ⁽¹⁾	\$160,819 ⁽²⁾	\$200,000 ⁽²⁾	\$480,992 ⁽⁶⁾
2011	\$123,509 ⁽²⁾	**	**	\$44,645 ⁽¹⁾	\$190,197 ⁽²⁾	\$170,000 ⁽²⁾	\$528,351 ⁽⁷⁾
2012	**	**	**	**	\$264,350 ⁽³⁾	\$185,650 ⁽²⁾	\$450,000 ⁽⁵⁾
2013	**	**	**	\$139,321 ⁽²⁾	\$199,054 ⁽³⁾	\$100,000 ⁽¹⁾	\$438,375 ⁽⁶⁾
2014	**	**	\$22,454 ⁽¹⁾	\$110,362 ⁽³⁾	\$198,687 ⁽²⁾	\$100,000 ⁽¹⁾	\$431,503 ⁽⁷⁾
2015	\$24,934 ⁽¹⁾	**	**	\$50,000 ⁽²⁾	\$165,781 ⁽²⁾	\$191,517 ⁽³⁾	\$432,232 ⁽⁸⁾
2016	\$47,683 ⁽²⁾	**	**	\$98,056 ⁽¹⁾	\$158,238 ⁽²⁾	\$146,536 ⁽³⁾	\$450,513 ⁽⁸⁾
2017	**	\$24,678 ⁽¹⁾	**	\$99,425 ⁽¹⁾	\$210,996 ⁽³⁾	\$117,996 ⁽²⁾	\$453,095 ⁽⁷⁾
Total	\$227,573 ⁽⁷⁾	\$164,981 ⁽⁷⁾	\$76,089 ⁽³⁾	\$1,076,584 ⁽²⁶⁾	\$2,343,687 ⁽⁴⁶⁾	\$1,538,027 ⁽²⁵⁾	\$5,426,941 ⁽¹¹⁴⁾