

# **U.S. Department of Education**

Washington, D.C. 20202-5335



## **APPLICATION FOR GRANTS UNDER THE**

**STATEWIDE LONGITUDINAL DATA SYSTEM RECOVERY ACT GRANTS  
CFDA # 84.384A  
PR/Award # R384A100041**

Closing Date: NOV 19, 2009

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**Application for Federal Assistance SF-424**

Version 02

* 1. Type of Submission	* 2. Type of Application:* If Revision, select appropriate letter(s):	
<input type="checkbox"/> Preapplication	<input checked="" type="checkbox"/> New	
<input checked="" type="checkbox"/> Application	<input type="checkbox"/> Continuation	* Other (Specify)
<input type="checkbox"/> Changed/Corrected Application	<input type="checkbox"/> Revision	

* 3. Date Received:	4. Applicant Identifier:
12/4/2009	

5a. Federal Entity Identifier:	* 5b. Federal Award Identifier:
	NA

**State Use Only:**

6. Date Received by State:	7. State Application Identifier:

**8. APPLICANT INFORMATION:**

\* a. Legal Name: South Dakota Department of Education

* b. Employer/Taxpayer Identification Number (EIN/TIN):	* c. Organizational DUNS:
466000364	809791692

**d. Address:**

* Street1:	700 Governors Drive
Street2:	
* City:	Pierre
County:	
State:	SD
Province:	
* Country:	USA
* Zip / Postal Code:	57501

**e. Organizational Unit:**

Department Name:	Division Name:
South Dakota Department of Education	Office of Finance and Management

**f. Name and contact information of person to be contacted on matters involving this application:**

Prefix:	Mrs.	* First Name:	Tamara
Middle Name:	L		

\* Last Name: Darnall

Suffix:

Title: Director Office of Finance and Management

Organizational Affiliation:

\* Telephone Number: (605)773-6231 Fax Number: (605)773-6139

\* Email: TAMARA.DARNALL@STATE.SD.US

**Application for Federal Assistance SF-424**

Version 02

**9. Type of Applicant 1: Select Applicant Type:**

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

\* Other (specify):

**10. Name of Federal Agency:**

U.S. Department of Education

**11. Catalog of Federal Domestic Assistance Number:**

84.384A

CFDA Title:

Statewide Longitudinal Data System Recovery Act Grants

**\* 12. Funding Opportunity Number:**

ED-GRANTS-072909-000

Title:

Institute of Education Sciences;(IES) Grant Program for Statewide Longitudinal Data Systems Recovery Act Program

**13. Competition Identification Number:**

Title:

**14. Areas Affected by Project (Cities, Counties, States, etc.):**

South Dakota Department of Education  
South Dakota Board of Regents  
South Dakota Department of Labor  
South Dakota Department of Corrections  
South Dakota Department of Social Services  
South Dakota School Districts

**\* 15. Descriptive Title of Applicant's Project:**

Development and implementation of the South Dakota Educational Data System (SD-EDS) longitudinal education data system.

Attach supporting documents as specified in agency instructions.

**Attachment:**

Title :

File :

**Attachment:**

Title :

File :

**Attachment:**

Title :

File :

**Application for Federal Assistance SF-424**

Version 02

**16. Congressional Districts Of:**

\* a. Applicant: 00

\* b. Program/Project: 00

Attach an additional list of Program/Project Congressional Districts if needed.

**Attachment:**

Title :

File :

**17. Proposed Project:**

\* a. Start Date: 5/1/2010

\* b. End Date: 12/31/2013

**18. Estimated Funding (\$):**

a. Federal	\$ 10697316
b. Applicant	\$ 0
c. State	\$ 476126
d. Local	\$ 0
e. Other	\$ 0
f. Program Income	\$
g. TOTAL	\$ 11173442

**\* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

a. This application was made available to the State under the Executive Order 12372 Process for review on .

b. Program is subject to E.O. 12372 but has not been selected by the State for review.

c. Program is not covered by E.O. 12372.

**\* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

Yes  No

**21. \*By signing this application, I certify (1) to the statements contained in the list of certifications\*\* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances\*\* and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

\*\* I AGREE

\*\* The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

**Authorized Representative:**

Prefix: Mrs. \* First Name: Tamara

Middle Name: L

\* Last Name: Darnall

Suffix:

Title: Director Office of Finance and Management

\* Telephone Number: (605)773-6231 Fax Number: (605)773-6139

\* Email: TAMARA.DARNALL@STATE.SD.US

\* Signature of Authorized Representative:

\* Date Signed:

**Application for Federal Assistance SF-424**

Version 02

**\* Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.



**U.S. DEPARTMENT OF EDUCATION**

**BUDGET INFORMATION**

**NON-CONSTRUCTION PROGRAMS**

OMB Control Number: 1894-0008

Expiration Date: 02/28/2011

Name of Institution/Organization:  
South Dakota Department of Educa...

Applicants requesting funding for only one year should complete the column under "Project Year 1." Applicants requesting funding for multi-year grants should complete all applicable columns. Please read all instructions before completing form.

**SECTION A - BUDGET SUMMARY**  
**U.S. DEPARTMENT OF EDUCATION FUNDS**

Budget Categories	Project Year 1(a)	Project Year 2 (b)	Project Year 3 (c)	Project Year 4 (d)	Project Year 5 (e)	Total (f)
1. Personnel	\$ 130,141	\$ 134,044	\$ 138,066	\$ 0	\$ 0	\$ 402,251
2. Fringe Benefits	\$ 35,305	\$ 35,843	\$ 36,400	\$ 0	\$ 0	\$ 107,548
3. Travel	\$ 17,500	\$ 11,000	\$ 9,000	\$ 0	\$ 0	\$ 37,500
4. Equipment	\$ 493,650	\$ 0	\$ 0	\$ 0	\$ 0	\$ 493,650
5. Supplies	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
6. Contractual	\$ 4,540,475	\$ 2,809,855	\$ 1,458,920	\$ 0	\$ 0	\$ 8,809,250
7. Construction	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
8. Other	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
9. Total Direct Costs (lines 1-8)	\$ 5,217,071	\$ 2,990,742	\$ 1,642,386	\$ 0	\$ 0	\$ 9,850,199
10. Indirect Costs*	\$ 448,668	\$ 257,204	\$ 141,245	\$ 0	\$ 0	\$ 847,117
11. Training Stipends	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
12. Total Costs (lines 9-11)	\$ 5,665,739	\$ 3,247,946	\$ 1,783,631	\$ 0	\$ 0	\$ 10,697,316

**\*Indirect Cost Information (To Be Completed by Your Business Office):**

If you are requesting reimbursement for indirect costs on line 10, please answer the following questions:

(1) Do you have an Indirect Cost Rate Agreement approved by the Federal government?  Yes  No

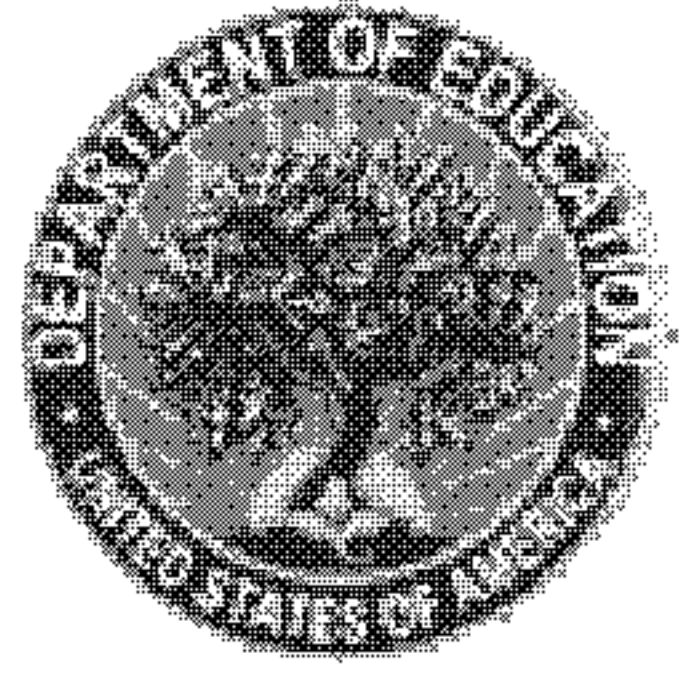
(2) If yes, please provide the following information:

Period Covered by the Indirect Cost Rate Agreement: From: 7/1/2009 To: 6/30/2010 (mm/dd/yyyy)

Approving Federal agency:  ED  Other (please specify): \_\_\_\_\_ The Indirect Cost Rate is 8.6%

(3) For Restricted Rate Programs (check one) -- Are you using a restricted indirect cost rate that:

Is included in your approved Indirect Cost Rate Agreement? or,  Complies with 34 CFR 76.564(c)(2)? The Restricted Indirect Cost Rate is 8.6%



**U.S. DEPARTMENT OF EDUCATION**

**BUDGET INFORMATION**

**NON-CONSTRUCTION PROGRAMS**

OMB Control Number: 1894-0008

Expiration Date: 02/28/2011

Name of Institution/Organization:  
South Dakota Department of Educa...

Applicants requesting funding for only one year should complete the column under "Project Year 1." Applicants requesting funding for multi-year grants should complete all applicable columns. Please read all instructions before completing form.

**SECTION B - BUDGET SUMMARY**

**NON-FEDERAL FUNDS**

Budget Categories	Project Year 1(a)	Project Year 2 (b)	Project Year 3 (c)	Project Year 4 (d)	Project Year 5 (e)	Total (f)
1. Personnel	\$ 104,990	\$ 136,233	\$ 140,320	\$ 0	\$ 0	\$ 381,543
2. Fringe Benefits	\$ 25,767	\$ 34,126	\$ 34,690	\$ 0	\$ 0	\$ 94,583
3. Travel	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
4. Equipment	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
5. Supplies	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
6. Contractual	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
7. Construction	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
8. Other	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
9. Total Direct Costs (lines 1-8)	\$ 130,757	\$ 170,359	\$ 175,010	\$ 0	\$ 0	\$ 476,126
10. Indirect Costs	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
11. Training Stipends	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
12. Total Costs (lines 9-11)	\$ 130,757	\$ 170,359	\$ 175,010	\$ 0	\$ 0	\$ 476,126



## ASSURANCES - NON-CONSTRUCTION PROGRAMS

Standard Form 424B (Rev.7-97)

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

**NOTE:** Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management, and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States, and if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. "4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. "1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. '794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act
9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. "276a to 276a-7), the Copeland Act (40 U.S.C. '276c and 18 U.S.C. "874) and the Contract Work Hours and Safety Standards Act (40 U.S.C. " 327-333), regarding labor standards for federally assisted construction sub-agreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. "1451 et seq.); (f) conformity of Federal actions to State (Clear Air) Implementation Plans under Section 176(c) of the Clear Air Act of 1955, as amended (42 U.S.C. "7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended, (P.L. 93-523); and (h) protection of endangered species under the Endangered Species Act of 1973, as amended, (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. "1721 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance

of 1975, as amended (42 U.S.C. " 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) " 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. " 290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. ' 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with the provisions of the Hatch Act (5 U.S.C. "1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. '470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. "469a-1 et seq.).

14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. "2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. "4801 et seq.) which prohibits the use of lead- based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations and policies governing this program.

**Signature of Authorized Certifying Representative:**

**Name of Authorized Certifying Representative:** Tamara L Darnall

**Title:** Director Office of Finance and Managemen

**Date Submitted:** 11/02/2009



## CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements.

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal Loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance.

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

### APPLICANT'S ORGANIZATION

South Dakota Department of Education

### PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE

Prefix: Mrs.      First Name: Tamara      Middle Name: L

Last Name: Darnall      Suffix:

Title: Director Office of Finance and Managemen

Signature:

Date:

11/02/2009

ED 80-0013

03/04

**SUPPLEMENTAL INFORMATION  
REQUIRED FOR  
DEPARTMENT OF EDUCATION GRANTS**

**1. Project Director:**

Prefix:      \* First Name:              Middle Name:              \* Last Name:              Suffix:  
Mrs.        Tamara                              L                              Darnall

Address:

\* Street1:              700 Governors Drive  
Street2:  
\* City:                      Pierre  
County:  
\* State:                      SD\* Zip / Postal Code: 57501 \* Country: USA

\* Phone Number (give area              Fax Number (give area  
code)    code)  
(605)773-6231                                      (605)773-6139

Email Address:

TAMARA.DARNALL@STATE.SD.US

**2. Applicant Experience**

Novice Applicant                       Yes               No               Not applicable

**3. Human Subjects Research**

Are any research activities involving human subjects planned at any time during the proposed project period?

Yes               No

Are ALL the research activities proposed designated to be exempt from the regulations?

Yes    Provide Exemption(s) #:

No    Provide Assurance #, if available:

**Please attach an explanation Narrative:**

**Attachment:**

Title :  
File :

# Project Narrative

## Project Narrative - Project Abstract

Attachment 1:

Title: **Abstract\_V2.doc** Pages: **1** Uploaded File: **Abstract\_V2.doc**

## South Dakota Longitudinal Data System

The South Dakota Department of Education (SD DOE) has spent the last several years putting in place the foundational components necessary to successfully build a Longitudinal Data System (LDS). SD DOE has:

- Implemented a voluntary state-wide Student Information System (SIS) that is currently being used by 99% of the school districts.
- Implemented a unique student identifier in elementary and secondary education
- Implemented a unique identifier to students in postsecondary regental institutions
- Identified key data to be included in the LDS

The SD DOE is now prepared and very well positioned to build on our K-12 efforts and launch into new educational sectors to create a K to 21 LDS that can be used to manage, analyze and disaggregate student and teacher data in a manner that efficiently informs instructional and programmatic decision making to improve student educational achievement throughout the state. The LDS will allow the SD DOE and LEAs to improve student academic achievement and close achievement gaps.

With assistance from this IES grant, SD DOE will leverage the work already done in implementing a standard K-12 student information system, standardizing data elements and definitions and data reporting processes at the LEA level in the development of the LDS.

The SD DOE will implement a Commercial Off-The-Shelf (COTS) data warehouse product to serve as the core of the LDS. This product will collect and store detail level student, teacher, course enrollment, assessment and program participation data. The system will allow the SD DOE to link teachers to students and specific course enrollments including the ability to calculate Highly Qualified Teachers (HQT) at the course section level. The system will have the ability to track a student from Kindergarten through their postsecondary education and into the workforce.

To make this vision a reality seven associated outcomes will be accomplished.

- 1) Unique K-21 Student Identifier
- 2) Unique Staff Identifier
- 3) K-12 Longitudinal Data Warehouse
- 4) Integration of Postsecondary Data
- 5) Reporting and Analysis System
- 6) South Dakota Data Quality Initiative
- 7) Postsecondary Technical Institution Electronic Management System

# Project Narrative

## Project Narrative - Project Narrative

Attachment 1:

Title: **Project Narrative\_FINAL.doc** Pages: **20** Uploaded File: **ProjectNarrative\_FINAL.doc**



## 6. PROJECT NARRATIVE

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## **A. Need for the Project**

South Dakota has numerous data collection and reporting systems managed by the SD DOE, the South Dakota Board of Regents (SD BOR) and third party vendors. Many of the systems were implemented in a non-standardized, decentralized manner that corresponded to direct needs at the time of implementation. The result is a siloed environment that does not lend itself to collaboration between programs nor does the system work in concert to provide comprehensive, systemic data to inform programmatic or instructional decisions. Presently it requires great effort to export data from individual systems, to recode and to reformat the data to meet federal reporting requirements. A K-21 (Kindergarten-to-labor market) longitudinal data system is needed to provide reliable and timely support for reporting, ongoing analysis, and program evaluation. A K-21 data system would provide the core of a new decision support infrastructure to support improving student achievement and program improvement

To fill this need, South Dakota will create the South Dakota – Educational Data System (SD-EDS). The vision statement for this project is:

*The South Dakota – Educational Data System (SD-EDS) will be a robust, efficient, interoperable, reliable and user-friendly longitudinal K-21 data system that 1) supports analysis and informed decisions making focused on improving student/teacher performance and 2) ensures timely and accurate reporting.*

To make this vision a reality two overarching objectives and seven associated outcomes will be accomplished.

**Objective I:** Develop, implement and maintain a statewide longitudinal data system that provides student and teacher data over time and allows for efficient and effective data sharing between K-12 and post-secondary.

**Objective II:** Develop, implement and maintain a statewide longitudinal data system that allows for efficient and effective reporting to federal officials, decision making by state policymakers and assessment and research by educators.

To meet these two overarching objectives, the project will accomplish these seven outcomes:

- 1) Unique K-21 Student Identifier
- 2) Unique Staff Identifier
- 3) K-12 Longitudinal Data Warehouse
- 4) Integration of Postsecondary Data
- 5) Reporting and Analysis System
- 6) South Dakota Data Quality Initiative
- 7) Postsecondary Technical Institution Electronic Management System

[Each of the outcomes and their related system requirements and implementation are presented in full in section (B.) of this project narrative].

## **SLDS Application Acronym Key**

SD-EDS = South Dakota – Educational Data System

LDS = longitudinal data system

SD DOE= South Dakota Department of Education

US DOE=United States Department of Education

ESA=Educational Service Agency

SD BIT = South Dakota Bureau of Information and Telecommunications

SD BOR = South Dakota Board of Regents

PRF = Personnel Record Forms

FERPA=Family Educational Rights and Privacy Act

SIMS = Student Information Management System

Dakota STEP= Dakota Student Test of Educational Progress

LEA = Local Education Agency

## **Current Status of the Statewide LDS**

The South Dakota Department of Education (SD DOE) has spent the last several years putting in place the foundational components necessary to successfully build a Longitudinal Data System (LDS). SD DOE has:

- Implemented a voluntary state-wide Student Information System (SIS) that is currently being used by 99% of the school districts.
- Implemented a unique student identifier in elementary and secondary education
- Implemented a unique identifier to students in postsecondary regental institutions
- Identified key data to be included in the LDS

Although South Dakota stakeholders have accomplished significant gains in the effort to collect and utilize data, the key components of a Longitudinal Data System are absent from the South Dakota system. The SD DOE does not have a longitudinal data store that allows for consolidation, organization or analysis of historical data. There is not a comprehensive system for tracking students from K-12 to all post-secondary institutions. Student and teacher data are not linked. There are serious concerns about the quality and consistency of data entry at the beginning of the pipeline in the state's LEAs.

The SD DOE is now prepared and very well positioned to build on our K-12 efforts and launch into new educational sectors to create a K to 21 LDS that can be used to manage, analyze and disaggregate student and teacher data in a manner that efficiently informs instructional and programmatic decision making to improve student educational achievement throughout the state. The LDS will allow the SD DOE and LEAs to improve student academic achievement and close achievement gaps.

See Table 1. Of the 7 required data system capabilities outlined in the grants for statewide longitudinal data systems under the ARRA, South Dakota is currently only meeting one of seven, EdFacts reporting. The SD DOE is able to provide reports to EdFacts, but this task is accomplished in an inefficient and inconsistent manner. Typically SD DOE has been tardy in its

reporting because of numerous problems that exist in the cumbersome processes to prepare these reports.

The current system does not allow for examination of student progress and outcomes over time, including students' preparation to meet the demands of postsecondary education, the 21<sup>st</sup> century workforce and the Armed Forces. The system does not facilitate or enable the exchange of data among agencies and institutions within the state and between states in a manner that informs policy or practice. There is little interoperability due to uncommon data structures, data formats and data definitions. The system does not link student data with teacher data and the teacher data is not sufficiently linked with information about teacher preparation programs in the South Dakota university system. The system does not enable data to be easily presented for continuous improvement and decision-making. It does not allow for timely reporting to parents, teachers, school leaders and policy makers about the achievement of students. The system is not designed to ensure the quality, integrity or security of data in the system.

Table 1. Illustrates the manner in which the seven outcomes of the SD-EDS proposal align with the seven required data system elements.

#### Seven Outcomes of the SD-EDS

- 1) Unique K-21 Student Identifier
- 2) Unique Staff Identifier
- 3) K-12 Longitudinal Data Warehouse
- 4) Integration of Postsecondary Data
- 5) Reporting and Analysis System
- 6) South Dakota Data Quality Initiative
- 7) Postsecondary Technical Institution Electronic Management System

**Table 1.**

7 Required Data System Elements Capabilities from the LDS American Recovery and Reinvestment Act	SD-EDS Outcomes						
	1	2	3	4	5	6	7
1. Preschool through postsecondary education	X		X	X	X	X	X
2. Exchange of data among agencies and institutions.	X		X	X	X	X	X
3. Link student data with teachers		X	X			X	
4. Matching of teachers with their certification.			X			X	
5. Data for continuous improvement and decision-making				X	X	X	
6. Quality and integrity of data.	X	X	X	X	X	X	
7. ED Facts**					X	X	

\*\*SD DOE in compliance

Table 2. Illustrates the manner in which the seven outcomes of the SD-EDS proposal align with the 12 required data system elements from the America COMPETES Act.

**Table 2.**

12 Required Data System Elements from the America COMPETES Act	SD-EDS Outcomes						
	1	2	3	4	5	6	7
1. Student Identifiers	X					X	
2. Student Data			X	X		X	X
3. Exit Data			X	X		X	X
4. Higher Ed Communications				X		X	X
5. Audit System			X	X		X	
6. Assessments					X	X	
7. Non-tested						X	
8. Teacher Identifiers		X				X	
9. Transcripts						X	
10. SAT/ACT			X			X	
11. Higher Education Transition					X	X	X
12. Higher Education Success					X	X	X

While there is a unique student identifier it does not connect to a unique teacher identifier, nor does it connect with post-secondary systems. The system is not automated in a fashion that allows for efficient transfer of student-level transcript information including courses completed and grades earned. Although SD DOE has access to student-level college readiness test scores, that information is not currently integrated with other system data and so it cannot be used to analyze course or program quality. When students do transition to secondary schools, there is no feasible way to compare college readiness or postsecondary success related to prior coursework or college readiness scores. There are concerns about the quality, validity and reliability of the current data system.

### **Current Capacity to Utilize a Statewide LDS**

Capacity development activities are built into the proposal for the development of SD-EDS. These activities are essential for the purposes of making use of fully realized LDS. One of the primary capacity building activities will be the initiation of the Data Quality Campaign. The campaign will engage representatives from each school district in the state, a data quality coach in each of six educational service agencies (ESA), and representatives from both the technical institutions and the higher education institutions. The data coaches to be located in each ESA will engage in ongoing professional development in order to provide ongoing support to districts in each region.

The SD DOE will employ an additional two new FTE whose function will be to manage data in the longitudinal data system and to provide support to LEAs in submitting and extracting needed data. Additional existing personnel in the SD DOE will also handle some responsibilities for the project.

In addition to training state department staff in the use of the longitudinal data system, SD-DOE plans to offer training to LEAs and other stakeholders on the capabilities and functions of the SD-EDS data system. Furthermore, to ensure that the data entered into the system is of high

quality, the state is proposing intensive data quality to school districts as part of the project. This will ensure that SD-EDS is able to fulfill its purpose of providing relevant data-based decision making and reporting functions to stakeholders.

### **Intentions of Use to Meet State Fiscal Stabilization Fund Requirements**

With the development of SD-EDS, the 7 required data system capabilities outlined in the grants for statewide longitudinal data systems under ARRA will be met. Additionally, the SD DOE will also be compliance with 12 required data system elements from the America COMPETES Act.

The core reform policies under ARRA are 1) Standards and Assessment, 2) Effective Teachers and Leaders, 3) Data Systems, and 4) Struggling Schools. Once SD-EDS is fully operational in South Dakota, it will provide a significant data system resource that meets the Data System core reform policy. Scenarios of how this data will be utilized specifically in the state of South Dakota to meet the other core reform policies are presented below.

**Scenario #1:** In 2005 South Dakota Governor Mike Rounds developed the P-21 Council to enhance the dialogue between K-12 and post-secondary institutions for the purpose of ensuring graduates are prepared to enter a 21st Century workforce. The council recognizes a need for enhancing data that districts receive about their graduates. Post-secondary institutions need to be able to connect student performance related to standards and high quality assessments prior to their entrance into college in order to investigate factors associated with college student achievement, progress, and degree completion. South Dakota is also a member of the Partnership for 21st Century Learning. The P-21 Council recognizes that K-12 and post-secondary curriculum must be relevant to 21<sup>st</sup> Century learning. A LDS that aligns high school curriculum, standards and assessment with student post-secondary performance will provide a mechanism for more sophisticated analysis.

**Scenario #2:** SD DOE is currently a partner in a National Math and Science Initiative to promote Advanced Placement (AP) coursework to improve rigor. Students in South Dakota's most rural locations now have online access to AP courses. We also know that 30% of incoming freshmen in SD's public universities require remedial coursework in math and English. We believe that high school students who pursue rigorous courses in core content areas and specific career clusters (fields of study) enter technical school and college ready to perform. At present we don't have sufficient data analysis capabilities to support this because we don't know what high school courses these students took and we don't have the data to know if AP coursework will affect this percentage. A LDS will alleviate this dilemma.

**Scenario #3:** Teachers must be effective to provide relationships, relevance and rigor. Currently the state is engaged in a Teacher Incentive Fund (TIF) grant that seeks to measure and reward teacher effectiveness as judged in part by student achievement. The school districts participating in the TIF project have been identified as struggling schools -- they are the lowest performing schools in the state. The current data system does not allow student data to be connected with teacher data. Although students do have unique identifiers, teachers do not and so that data cannot be correlated. Additionally, the state is also experiencing a teacher and administrative shortage and programs are in place to recruit both populations. It would be beneficial to track the effectiveness of teachers certified through non-traditional methods as well

