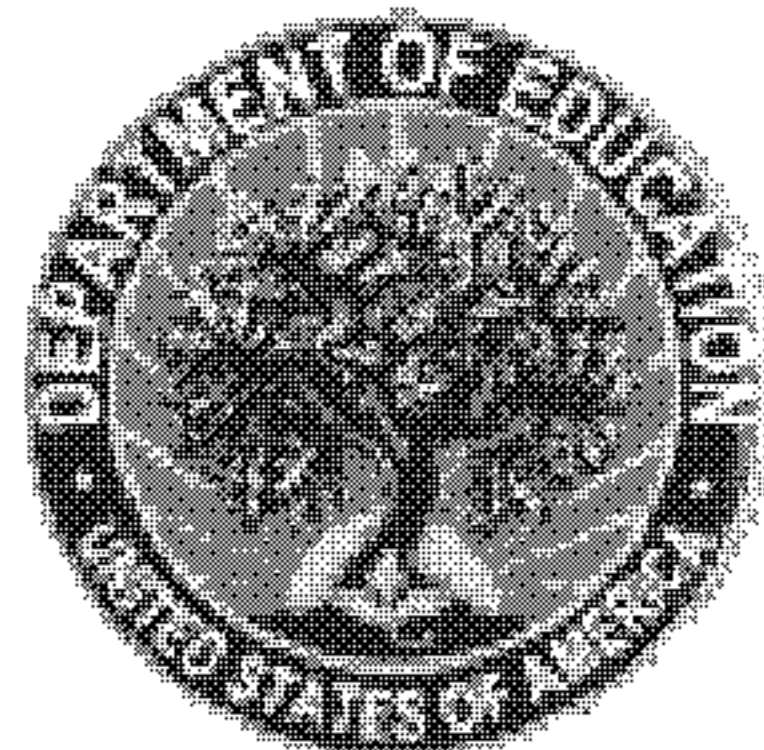


U.S. Department of Education

Washington, D.C. 20202-5335



APPLICATION FOR GRANTS UNDER THE

**STATEWIDE LONGITUDINAL DATA SYSTEM RECOVERY ACT GRANTS
CFDA # 84.384A
PR/Award # R384A100040**

Closing Date: DEC 04, 2009

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This application was generated using the PDF functionality. The PDF functionality automatically numbers the pages in this application. Some pages/sections of this application may contain 2 sets of page numbers, one set created by the applicant and the other set created by e-Application's PDF functionality. Page numbers created by the e-Application PDF functionality will be preceded by the letter e (for example, e1, e2, e3, etc.).

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:
	CFDA 84.384A2010-1

State Use Only:

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

8. APPLICANT INFORMATION:

* a. Legal Name: State of Missouri -- Department of Elementary and Secondary Education

* b. Employer/Taxpayer Identification Number (EIN/TIN):	* c. Organizational DUNS:
446000987	093746923

d. Address:

* Street1:	PO Box 480
Street2:	
* City:	Jefferson City
County:	Cole
State:	MO
Province:	
* Country:	USA
* Zip / Postal Code:	65102

e. Organizational Unit:

Department Name:	Division Name:
Department of Elementary & Secondary Education	

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

Prefix:	Ms.	* First Name:	Leigh
Middle Name:	A		

* Last Name: Grant-Engle

Suffix:

Title: Data Manager

Organizational Affiliation:

Missouri Department of Elementary & Secondary Education

* Telephone Number: (573)522-8310 Fax Number: (573)526-6898

* Email: LEIGHANN.GRANTENGLE@DESE.MO.GOV

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-072909-001

Title:

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

13. Competition Identification Number:

Title:

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

State, Schools, Counties

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

Missouri Comprehensive 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: MO-All

* b. Program/Project: MO-ALL

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

Attachment:

Title :

File :

17. Proposed Project:

* a. Start Date: 4/1/2010

* b. End Date: 3/31/2013

18. Estimated Funding (\$):

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

*** 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: Ms. * First Name: Leigh
Middle Name: A
* Last Name: Grant-Engle
Suffix:

Title: Data Manager

* Telephone Number: (573)522-8310 Fax Number: (573)526-6898

* Email: LEIGHANN.GRANTENGLE@DESE.MO.GOV

* Signature of Authorized Representative: * Date Signed:

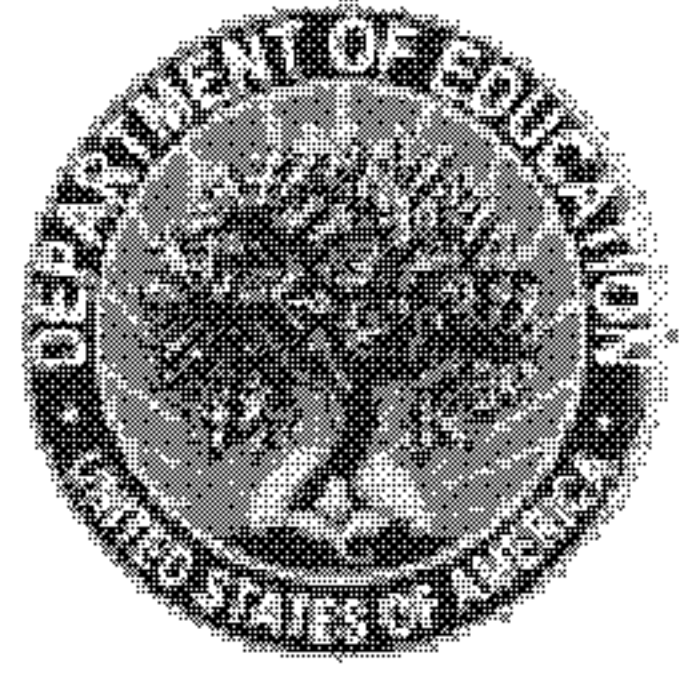
Application for Federal Assistance SF-424

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.

NA



U.S. DEPARTMENT OF EDUCATION

BUDGET INFORMATION

NON-CONSTRUCTION PROGRAMS

OMB Control Number: 1894-0008

Expiration Date: 02/28/2011

Name of Institution/Organization:
State of Missouri -- Department ...

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

Table with 7 columns: Budget Categories, Project Year 1(a), Project Year 2 (b), Project Year 3 (c), Project Year 4 (d), Project Year 5 (e), Total (f). Rows include Personnel, Fringe Benefits, Travel, Equipment, Supplies, Contractual, Construction, Other, Total Direct Costs, Indirect Costs, Training Stipends, and Total Costs.

*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? [X] Yes [] No

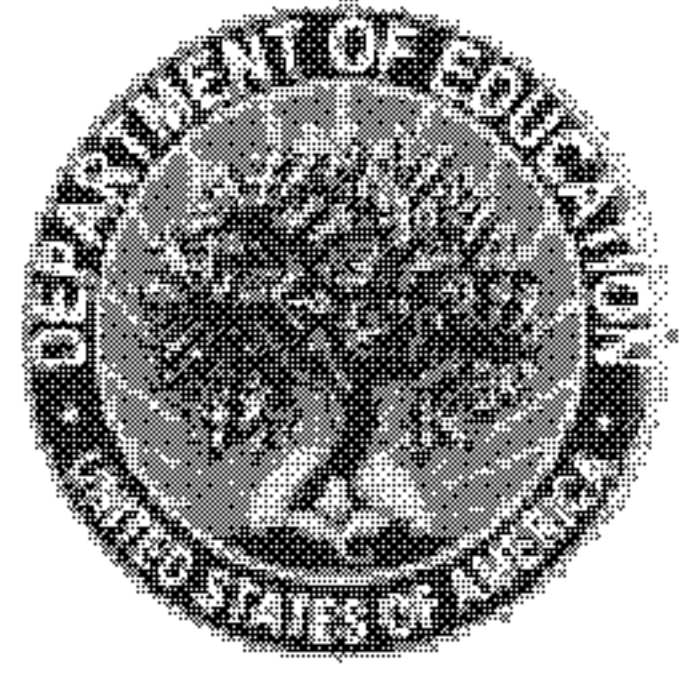
(2) If yes, please provide the following information:

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

Approving Federal agency: [X] ED [] Other (please specify): _____ The Indirect Cost Rate is 6.6%

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

[X] Is included in your approved Indirect Cost Rate Agreement? or, [] Complies with 34 CFR 76.564(c)(2)? The Restricted Indirect Cost Rate is 6.6%



U.S. DEPARTMENT OF EDUCATION
BUDGET INFORMATION
NON-CONSTRUCTION PROGRAMS

OMB Control Number: 1894-0008

Expiration Date: 02/28/2011

Name of Institution/Organization:
State of Missouri -- Department ...

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	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2. Fringe Benefits	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
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)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
10. Indirect Costs	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
11. Training Stipends	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
12. Total Costs (lines 9-11)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

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: Leigh Ann Grant-Engle

Title: Data Manager

Date Submitted: 12/02/2009

Disclosure of Lobbying Activities

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

1. Type of Federal Action: <input type="checkbox"/> Contract <input checked="" type="checkbox"/> Grant <input type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Loan <input type="checkbox"/> Loan Guarantee <input type="checkbox"/> Loan Insurance	2. Status of Federal Action: <input type="checkbox"/> Bid/Offer/Application <input checked="" type="checkbox"/> Initial Award <input type="checkbox"/> Post-Award	3. Report Type: <input checked="" type="checkbox"/> Initial Filing <input type="checkbox"/> Material Change For Material Change only: Year: 0 Quarter: 0 Date of Last Report:
4. Name and Address of Reporting Entity: <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier, if known: 0 Name: MO Department of Elem & Sec Education Address: PO Box 480 City: Jefferson City State: MO Zip Code + 4: 65102-	5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime: Name: Address: City: State: Zip Code + 4: - Congressional District, if known:	
6. Federal Department/Agency: Department of Education	7. Federal Program Name/Description: Institute of Education Sciences;(IES) CFDA Number, if applicable: 84.384	
8. Federal Action Number, if known:	9. Award Amount, if known: \$0	
10. a. Name of Lobbying Registrant (if individual, last name, first name, MI): NA Address: City: State: Zip Code + 4: -	b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI): NA Address: City: State: Zip Code + 4: -	
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Name: Leigh Ann Grant-Engle Title: Data Manager Applicant: State of Missouri -- Department of Elementary and Secondary Education Date: 12/02/2009	
Federal Use Only:		Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)

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 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 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

State of Missouri -- Department of Elementary and Secondary Education

PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE

Prefix: First Name: Leigh Ann Middle Name: A
Last Name: Grant-Engle Suffix:
Title: Data Manager

Signature:

Date:

12/02/2009

ED 80-0013

03/04

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

1. Project Director:

Prefix:	* First Name:	Middle Name:	* Last Name:	Suffix:
Ms.	Leigh	A	Grant-Engle	

Address:

* Street1: PO Box 480
 Street2:
 * City: Jefferson City
 County: Cole
 * State: MO * Zip / Postal Code: 65102 * Country: USA

* Phone Number (give area code)	Fax Number (give area code)
(573)522-8310	(573)526-6898

Email Address:

LEIGHANN.GRANTENGLE@DESE.MO.GOV

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: **Project Abstract** Pages: **1** Uploaded File: **Abstract.pdf**

Project Abstract

The SLDS application process has been a tremendous opportunity for Missouri to coordinate across the early childhood services and agencies, the Department of Elementary and Secondary Education (DESE), higher education, and the workforce agencies statewide. Our State has a P-20 Council and a new P-Data Council that provide guidance to this coordination. Our insight from this process has been to define the enormous gap in resources to address the needs identified over the next three years. Focusing on improving teaching and learning in the classroom, this application defines the data infrastructure, integration, and interoperability required to support the data-driven decision making that is foundational to the four SFSF assurances, the seven ARRA capabilities, and the 12 America COMPETES Act elements. Missouri lagged behind until our first LDS grant gave us a boost. This application builds upon that start to meet these 4, 7, and 12 targets.

During our planning process, the participants identified 10 purposes, which became our guide for components within the application. DESE is making the transition from collecting aggregate data to individual records and needs to convert all legacy reporting processes (e.g., *EDFacts*) to use record-level data from our developing data warehouse (Enhanced Reporting Component). An emerging need and opportunity with a longitudinal data system is to test business rules across districts, years, and collections and to provide early reports to enable checking of data to improve data quality (State-Level Trials and Diagnostic Metric Reports Component). Improving the quality and timeliness of higher education data (Higher Education Data Quality Improvement Component) and creating a statewide system for the electronic exchange of student records and transcripts (Electronics Records and Transcripts Exchange Components) are designed to enhance the data available for analysis and exchange with PK-12 and the workforce.

A central data store will be required to consolidate the data across all the participants (Missouri Comprehensive Data System). We propose incorporating data from the National Student Clearinghouse and the Midwest Education Information Consortium to include follow-up data on graduates and dropouts who move to other states. The participating agencies will need significant assistance to establish standards and upgrade their data systems for exchanging (State Agency and Workforce Data Quality Component, Early Childhood P-Data Council Component). The P-Data Council has created a substantial plan for coordinating across the various agencies and services for early childhood.

DESE understands that a project of this scope and size requires professional and dedicated project management (Project Management and Systems Integration Component) and evaluation (Evaluation Component). This application requests resources for a statewide effort that our partners have planned well and are ready to implement. Missouri has the State technical infrastructure to ensure the Project activities can be successful. The major critical success factor for the Missouri Comprehensive Data System Project is the commitment of the partners. The cooperation and coordination exhibited during the planning process will benefit the State and the individuals served by all of our agencies for years to come.

Project Narrative

Project Narrative - Project Narrative

Attachment 1:

Title: **Project Narrative** Pages: **30** Uploaded File: **Project Narrative.pdf**

Project Narrative

The Missouri Comprehensive Data System Project has emerged from a comprehensive planning process among the partners representing the Department of Elementary and Secondary Education (DESE), the early childhood community (P-Data Council), the Missouri Department of Higher Education, and the workforce agencies and programs statewide. Throughout the planning, we were focused on the four assurances from the State Fiscal Stabilization Fund, the seven required capabilities for SLDS projects from the American Recovery and Reinvestment Act, and the 12 required data system elements from the America COMPETES Act. The planning partners established 10 purposes for the Missouri Comprehensive Data System Project grant application aligned with these targets. Each of these purposes became a component in this application. These are:

Component 1: Project Management and Systems Integration

Purpose: To ensure that the activities funded by the grant are planned and implemented efficiently and effectively to accomplish the project outcomes and improve the teaching and learning effectiveness in Missouri classrooms.

Component 2: Early Childhood “P” Data

Purpose: To establish data standards across the pre-kindergarten arena so quality data can be collected and exchanged for the improvement of services and analysis of effectiveness of the programs for these children as they progress into PK-12 education.

Component 3: State Agency and Workforce Data Quality

Purpose: To establish common data standards across workforce programs and services, and to create the capacity and processes for these agencies to share and use Pre-K to the workforce data from the P-20 LDS effectively.

Component 4: State-Level Trials and Diagnostic Metric Reports

Purpose: To improve the quality of PK-12 data by providing schools and districts with timely feedback and audit reports for understanding their data at the time they are preparing submissions to DESE.

Component 5: The Show-Me Portal

Purpose: To build a web-delivered system for access to timely and quality data for decision making by creating a portal to manage directory, reports, and communities of interest for all users.

Component 6: Enhanced Reporting

Purpose: To make a complete transition by rebuilding traditional reports from the legacy mainframe system and aggregate statistic systems to the MOSIS individual record data system; and ensure that all users of the reports are trained and supported effectively.

Component 7: Electronic Records and Transcript Exchange

Purpose: To establish a statewide system for electronic exchanges of student records and transcripts for PK-12 mobile students, high school to postsecondary applicants, and postsecondary transcripts reported back to high schools.

Component 8: Higher Education Data Quality Improvement

Purpose: To improve the quality and timeliness of postsecondary data to ensure validity for federal reporting, analysis, and sharing with PK-12 and the workforce agencies.

Component 9: The Missouri Comprehensive Data System

Purpose: To design and deploy a consolidated P-20 data warehouse that supports analysis and reporting from Pre-K through higher education and the workforce, with a functional query and reporting system usable by participating partners and the public.

Component 10: Project Evaluation

Purpose: To provide an objective external evaluation for continuous improvement and accountability for the Missouri Comprehensive Data System Project.

(a) Need for Project

The State of Missouri has a clear focus on the role of data—to improve the teaching and learning process in our classrooms. As we planned together for this P-20 longitudinal data system, the complexities of that challenge became apparent, and the need for additional resources was evident. The SLDS application process presented a tremendous opportunity for the people of Missouri to coordinate across the early childhood services and agencies, the Department of Elementary and Secondary Education (DESE), higher education, and the workforce agencies statewide. Our State's Legislature created the P-20 Council and a new P Data Council that provide guidance to this coordination. Our insight from this LDS grant planning process has been to define the enormous gap in resources available to address the needs identified over the next three years. Focusing on improving teaching and learning in the classroom, this application has been crafted to define the data infrastructure, integration, and interoperability required to support the data-driven decision making that is foundational to the four SFSF assurances, the seven ARRA capabilities, and the 12 America COMPETES Act elements. Missouri lagged behind until our first LDS grant gave us a boost. This application builds upon that start to meet these 4, 7, and 12 targets.

DESE is making the transition from collecting aggregate data to individual records and needs to convert all legacy reporting processes (e.g., *EDFacts*, our Annual Report to the State Board of Education, AYP, etc.) to use record-level data from our developing data warehouse (Enhanced Reporting Component). An emerging need and opportunity with a longitudinal data system is to test business rules across districts, years, and collections and to provide early reports to enable checking of data to improve data quality (State-Level Trials and Diagnostic Metric Reports Component). Improving the quality and timeliness of higher education data (Higher Education Data Quality Improvement Component) and creating a statewide system for the electronic exchange of student records and transcripts (Electronics Records and Transcripts Exchange Components) are designed to enhance the data available for analysis and exchange with PK-12 and the workforce.

A central data store will be required to consolidate the data across all the participants (P-20 Longitudinal Data System Central Data Store Component). The participating agencies will need significant assistance to establish standards and upgrade their data systems for exchanging (State Agency and Workforce Data Quality Component, P Data Council Component). The P Data

Council has created a substantial plan for coordinating across the various agencies and services for early childhood.

DESE understands that a project of this scope and size requires professional and dedicated project management (Project Management and Systems Integration Component) and evaluation (Evaluation Component).

Component 1: Project Management and Systems Integration

Purpose: To ensure that the activities funded by the grant are planned and implemented efficiently and effectively to accomplish the project outcomes and improve the teaching and learning effectiveness in Missouri classrooms.

SLDS grants present a challenge to an SEA to manage the significant infusion of resources, a sudden initiation of grant activities, and the continuation of all current demands of the systems and projects already active. DESE has learned from the MOSIS Project and the first year of our LDS grant that leveraging our internal expertise in managing our projects such as Statewide Assessment, Accreditation, and others without disrupting their notable progress by engaging a professional project management team with experience and expertise specifically relevant for the components of this grant is advisable. Therefore, we recognize the need to add additional project management resources for these components, especially to handle the increased coordination among the pre-K, workforce, and higher education communities.

The expertise we will seek to balance our internal resumes will include:

- Higher education, workforce, and prekindergarten data standards alignment with PK-12;
- ETL and data warehouse exchange with other platforms and standards from Pre-K, workforce, and higher education for the P-20 longitudinal data system;
- Process management to ensure the coordination across all P-20 policy and methodology; and
- Experience with P-20, USED, PESC, NCES, NEDM, and the many other national standards and groups that impact the interoperability of the data that will reside within the P-20 longitudinal data system in the future.

Component 2: Early Childhood ‘P’ Data

Purpose: To establish data standards across the pre-kindergarten arena so quality data can be collected and exchanged for the improvement of services and analysis of effectiveness of the programs for these children as they progress into PK-12 education.

The Preschool or ‘P’ (prenatal to kindergarten entry) leaders are the newest partners to join the longitudinal data systems efforts in Missouri. The P arena is unique as there is no central entity to gather information about Missouri’s youngest children, such as the public schools in the K-12 system. The MO P Data Council was established to guide the development of the infrastructure for incorporating P data into existing K-12, higher education, and economic development data systems. The Council will investigate potential datasets for transfer, linkage requirements, systems upgrades needed, and the potential policy questions that can be answered from these data. After consideration of the variety of services and educational opportunities that could potentially impact children’s success in school and life, the P Data Council has preliminarily

identified seven areas of data collection to constitute the MO P Dataset: early childhood program data, child assessment data, child health data, early childhood workforce data, child enrollment data, parent education and support data, and social service support data. [For more information about the datasets within each type please see Appendix A, Attachment 2: Missouri Data Collections and Coordination Efforts, Overview of the Types of Data Being Recruited for the P Dataset.]

Some of the datasets can be easily accessed and transferred into the P Data Warehouse while others require additional technology development or concentrated recruitment efforts. Then, there are areas where new technology is necessary before the data can be included. The P Data Council strives to create a robust and representative dataset that can be incorporated into the P-20 LDS to inform policy development and early childhood practice. The success of these efforts will be measured by our ability to secure data and link records in the following ways.

- A child record can be identified and linked across multiple datasets using one of two unique variables or a combination of unique child-specific variables.
- A program can be identified and linked across multiple datasets.
- A classroom can be identified and linked to the sponsoring program and/or can be linked across multiple datasets.
- A child can be linked to a teacher, classroom, program, and/or support services through program or enrollment records.

Component 3: State Agency and Workforce Data Quality

Purpose: To establish common data standards across workforce programs and services, and to create the capacity and processes for these agencies to share and use Pre-K to the workforce data from the P-20 LDS effectively.

State agencies and workforce programs need to standardize their data consolidation of selected elements into a centralized P-20 LDS. To accomplish this, the resources of the LDS grant are needed to accomplish these tasks.

- Conduct a comprehensive study of the data standards used by each program and agency to establish the current definitions, requirements, and usages.
- Develop cross-agency data standards to support comparability for data sharing.
- Establish a cross-agency agreement on the data elements to be shared in the P-20 LDS; those that will be accessible by the public, by other agencies, and by restricted individual only.
- Design the data model for the P-20 LDS.
- Design the policies and procedures for data management of the consolidated longitudinal data system.
- Design the automation of the data movement into the P-20 LDS (e.g., requirements specifications, procurement, and implementation).

The participating state agencies and workforce organizations will receive guidance and consulting to upgrade their processes and systems to meet data quality standards as established for the P-20 LDS.

