



**REQUEST FOR GRANT AWARD (RFGA) APPLICATION**

INSTRUCTIONS	
<b>GRANT PERIOD</b>	July 1, 2020 through June 30, 2021
<b>SUBMISSION DEADLINE DATE</b>	Applications must be submitted by mail or email by close of business (5:00 p.m.) May 15, 2020
<b>CONTACT</b>	Technology and Engineering at 573-751-3872 or email <a href="mailto:dese.ths@dese.mo.gov">dese.ths@dese.mo.gov</a>
<b>MAIL</b>	Missouri Department of Elementary and Secondary Education Technology and Engineering Grant P.O. Box 480 Jefferson City, MO 65102-0480
<b>TITLE</b>	Technology and Engineering Grant (TEG)
<b>ELIGIBLE ENTITIES</b>	Missouri public school districts and charter schools
<b>GOAL</b>	Support implementation or expansion of the following approved, non-profit, science, technology, engineering and/or mathematics (STEM) focused activity and/or problem-based curriculum programs: <ul style="list-style-type: none"> <li>• Engineering by Design (EbD)<sup>TM</sup> - Grades 7-12</li> <li>• Project Lead The Way (PLTW)<sup>TM</sup> - Gateway (GTT) - Grades 7 and 8 only</li> </ul>
<b>DESCRIPTION</b>	<p>This is a school-based, non-renewable, non-competitive, start-up grant designed to partially reimburse initial program fees, equipment purchases and training expenses for implementation of new modules or courses in the approved programs listed above.</p> <p>Designed to be a 50/50 reimbursement grant. The actual percent of reimbursement rate is determined by the total amount requested from all grant applications compared to allocated funds. The reimbursement rate may vary annually.</p> <p>Grant awards are contingent upon General Assembly appropriations and Department of Elementary and Secondary Education (DESE) allocations.</p>
<b>RATIONALE</b>	<p>These STEM programs provide:</p> <ul style="list-style-type: none"> <li>• Comprehensive STEM design based on <i>Standards for Technological Literacy and Next Generation Science Standards</i>;</li> <li>• Real-world, problem-based, hands-on integrated experiences through a rigorous, relevant and engaging curriculum with authentic classroom and end-of-course assessments;</li> <li>• High-quality teacher training and professional development; and</li> <li>• Support for the following technology and engineering education goals:           <ol style="list-style-type: none"> <li>1. Provide a standards-based K-12 program that ensures all students are technologically literate.</li> <li>2. Provide opportunities for all students without regard to gender or ethnic origin.</li> <li>3. Provide clear standards and expectations for increasing student achievement in science, technology, engineering and math.</li> <li>4. Provide leadership and support that will produce continuous improvement and innovation in the program.</li> <li>5. Restore America's status as the leader in innovation.</li> <li>6. Provide a program that constructs learning from a very early age and culminates in a capstone experience that leads students to become the next generation of technologists, innovators, designers and engineers.</li> </ol> </li> </ul>
<b>ALLOWABLE EXPENSES</b>	<p>Fifty percent of documented expenditures will be reimbursed up to the maximum amount initially approved on the Application for Authorization of Career Education Expenditures (FV-4) form.</p> <p>Training:</p> <ul style="list-style-type: none"> <li>• Lodging</li> <li>• Mileage to/from training</li> <li>• Meals per person (receipts not required)</li> </ul> <p>Teacher stipends program</p> <ul style="list-style-type: none"> <li>• Core Training registration fee</li> <li>• Annual participation fee (first year only)</li> </ul>

The Department of Elementary and Secondary Education does not discriminate on the basis of race, color, religion, gender, sexual orientation, national origin, age, veteran status, mental or physical disability, or any other basis prohibited by statute in its programs and activities. Inquiries related to department programs and to the location of services, activities, and facilities that are accessible by persons with disabilities may be directed to the Jefferson State Office Building, Director of Civil Rights Compliance and MOA Coordinator (Title VI/Title IX/504/ADA/ADAAA/Age Act/GINA/USDA Title VI), 5th Floor, 205 Jefferson Street, P.O. Box 480, Jefferson City, MO 65102-0480; telephone number 573-526-4757 or TTY 800-735-2966; email [civilrights@dese.mo.gov](mailto:civilrights@dese.mo.gov).

**INSTRUCTIONS CONTINUED**

<p><b>ALLOWABLE EXPENSES (Continued)</b></p>	<p>Equipment and Materials:</p> <ul style="list-style-type: none"> <li>• Required by program or module</li> <li>• Non-consumable items over \$200 (per item, not bundled; kits are acceptable)</li> <li>• Computer - teacher (1 per teacher being trained)</li> <li>• Computers or personal devices (not both) - student; (25 maximum; not warranties)</li> <li>• Projectors and/or 3D printers (when required)</li> </ul>
<p><b>NON-ALLOWABLE EXPENSES</b></p>	<ul style="list-style-type: none"> <li>• Supplies - items less than \$200 per individual item or consumable (Individual items may not be bundled to equal \$200)</li> <li>• Furniture - desks, filing or storage cabinets</li> <li>• Items not required for module/course</li> <li>• National or state conference attendance expenses</li> <li>• CTSO-related expenses</li> <li>• Computer warranties</li> </ul>
<p><b>DOCUMENTATION SUBMISSION REQUIREMENTS</b></p>	<p>Each building must submit the following documentation with appropriate signatures:</p> <ol style="list-style-type: none"> <li>1. Application</li> <li>2. Assurances</li> <li>3. Grant Program Implementation Plan</li> <li>4. <a href="#">FV-4</a> - Application for Authorization of Career Education Expenditures</li> <li>5. Copy of Contract or Memorandum of Understanding (MOU) with national organization to access program, curriculum materials and resources (cover and signature pages only).</li> <li>6. Optional: Documentation of affiliation with Technology Student Association (TSA)</li> </ol> <p><b>December 15, 2020 Submission Deadline:</b></p> <ol style="list-style-type: none"> <li>7. <a href="#">FV-2</a> - Expense reimbursement request with documentation</li> <li>8. Grant Program Implementation Review</li> </ol>
<p><b>CALENDAR</b></p>	<p>July 1, 2020 - June 30, 2021 – Grant period  <b>May 29, 2020 – Application Submission Deadline</b> – Postmarked or receipt of emailed application                  July 1, 2020 – DESE Notification of Approval to applicants                  Dates Vary – PLTW/EbD required teacher training                  October – Missouri TSA Leadership Conference                  December 15, 2020 – FV-2 Expense reimbursement request deadline with Grant Program implementation Review                  February 15, 2021 – DESE confirmation of final reimbursement                  March/April 2021 – Missouri TSA Championship Conference                  December 15, 2021 – All grant funds are expended</p>

**SCHOOL INFORMATION**

LOCAL EDUCATION AGENCY (LEA)		COUNTY-DISTRICT CODE
SCHOOL BUILDING NAME	SCHOOL CODE	GRADE LEVEL(S)
SCHOOL MAILING ADDRESS	STATE	ZIP CODE
SCHOOL PHONE		
GRANT COORDINATOR NAME		
GRANT COORDINATOR EMAIL ADDRESS		GRANT COORDINATOR PHONE
AUTHORIZED REPRESENTATIVE SIGNATURE		DATE
PRINT AUTHORIZED REPRESENTATIVE NAME	TITLE	AMOUNT OF GRANT FUNDS REQUESTED \$

**TECHNOLOGY AND ENGINEERING GRANT ASSURANCES**

Upon receipt of grant funding, recipient assures:

1. Fiscal and property management controls and fund accounting procedures are in place and operational.
2. Local funds are allocated and expended in an amount equal to or greater than 50 percent of requested grant funding, covering required program fees, training, equipment and supplies.
3. All grant requirements are fulfilled with documentation completed by defined deadlines.
4. School will use existing computer resources (hardware, software and access) able to meet or exceed grant program curriculum expectations, when possible.
5. Teachers receive proper training and quality, ongoing professional development to ensure a high standard of program implementation and student success over time.
6. All purchased equipment is physically located in the grant building's appropriate instructional area.
7. All grant funds are expended by December 15, 2021.
8. Consider affiliation with Technology Student Association (TSA) that demonstrates integration with grant program curriculum along with advisor and student attendance at a minimum of one TSA state conference.
9. If implementing high school Engineering by Design courses, districts are encouraged to:
  - Implement all foundation and capstone courses during the next four year period
  - Complete program certification process by the end of the second year of the LEA's participation in the program
  - Use EbD required end-of-course assessments
  - Participate in the program's systemic evaluation process
10. Understand EbD is **not** an approved career and technical education program

**TECHNOLOGY AND ENGINEERING GRANT ASSURANCES (Continued)**

By submitting this application, the district commits to implement grant and program requirements.

AUTHORIZED REPRESENTATIVE SIGNATURE	DATE
PRINT AUTHORIZED REPRESENTATIVE NAME	TITLE

**TECHNOLOGY AND ENGINEERING GRANT PROGRAM IMPLEMENTATION PLAN**

LOCAL EDUCATION AGENCY (LEA)	COUNTY- DISTRICT CODE
SCHOOL NAME	SCHOOL CODE
BUILDING ADMINISTRATOR	
COURSE OR MODULE TITLES TO BE IMPLEMENTED: INDICATE DESIRED PROGRAM	
<input type="checkbox"/> ENGINEERING BY DESIGN (7-12) <input type="checkbox"/> PROJECT LEAD THE WAY – GATEWAY (7-8)	
COURSE OR MODULE TITLES TO BE IMPLEMENTED	

**TEACHERS ATTENDING PROGRAM REQUIRED TRAINING**

TEACHER NAME	CERTIFICATION AREA	COURSE(S) TO BE TAUGHT
GRADE LEVEL(S) IN WHICH PROGRAM/MODULE WILL BE IMPLEMENTED		
COURSE CATEGORY/TYPE - Scheduling structure program/classes will be offered. (Elective, core, etc.)		
INSTRUCTIONAL TIME		
a. MINUTES PER DAY OR WEEK		
b. NUMBER OF DAYS PER SEMESTER OR YEAR		

SPECIFIC MEASUREABLE OUTCOMES TO DATE THAT DETERMINE MEASURES OF SUCCESS

- a. EFFECTIVENESS OF PROGRAM IMPLEMENTATION (HOW WILL DISTRICT DETERMINE IF PROGRAM IS EFFECTIVELY IMPLEMENTED?)
  
  
  
  
  
  
  
  
  
  
- b. STUDENT PERSONAL GROWTH/DEVELOPMENT (EMPLOYABILITY SKILLS) AND ACADEMIC ACHIEVEMENT (HOW WILL DISTRICT MEASURE OR DETERMINE BOTH STUDENT ACADEMIC ACHIEVEMENT AND PERSONAL SKILL DEVELOPMENT?)

**TECHNOLOGY AND ENGINEERING GRANT PROGRAM IMPLEMENTATION REVIEW**

**SUBMIT THE FOLLOWING PROGRAM IMPLEMENTATION REVIEW INFORMATION WITH FV-2 EXPENSE REIMBURSEMENT FORM.**

**DESCRIBE:**

CHANGES IN PROGRAM DELIVERY STRUCTURE WHICH DIFFER FROM THE ORIGINAL APPLICATION (class time period, structure, number of classes taught, etc.).

SPECIFIC MEASUREABLE OUTCOMES TO DATE THAT DETERMINE:

- a. EFFECTIVENESS OF PROGRAM IMPLEMENTATION
  
  
  
  
  
  
  
  
  
  
- b. STUDENT PERSONAL GROWTH/DEVELOPMENT (EMPLOYABILITY SKILLS) AND ACADEMIC ACHIEVEMENT

REFLECTION - LESSONS LEARNED REGARDING TRAINING, IMPLEMENTATION, ORGANIZATIONAL STRUCTURE, TEACHER AND STUDENT SUCCESS AND LEARNING CHALLENGES

FUTURE PLANS - BASED ON EXPERIENCES TO DATE, DESCRIBE PLANS TO ENHANCE AND/OR EXPAND THIS PROGRAM TO IMPROVE STUDENT OUTCOMES