



REQUEST FOR GRANT AWARD (RFGA) APPLICATION

INSTRUCTIONS	
GRANT PERIOD	July 1, 2019, through June 30, 2020
SUBMISSION DEADLINE DATE	Applications must be submitted by mail or email by close of business (5:00 p.m.) May 29, 2019
CONTACT	Technology and Engineering at 573-522-6001
MAIL	Missouri Department of Elementary and Secondary Education Technology and Engineering Grant P. O. Box 480 Jefferson City, MO 65102-0480
EMAIL	DESE.THS@dese.mo.gov
TITLE	Technology and Engineering Grant (TEG)
ELIGIBLE ENTITIES	Missouri public school districts and charter schools
GOAL	Support implementation or expansion of the following approved, nonprofit, science, technology, engineering, and mathematics (STEM)-focused activity and problem-based curriculum programs: <ul style="list-style-type: none"> • Engineering by Design (EbD)™ - grades 7-12 • Project Lead The Way (PLTW)™ - Gateway (GTT) - grades 7-8 only
DESCRIPTION	This is a school-based, nonrenewable, noncompetitive 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. Designed to be a 50/50 reimbursement grant, the actual percent of reimbursement is determined by the total amount requested from all grant applications compared to allocated funds. The reimbursement rate may vary annually. Grant awards are contingent upon General Assembly appropriations and Department of Elementary and Secondary Education (DESE) allocations.
RATIONALE	These STEM programs provide <ul style="list-style-type: none"> • comprehensive, STEM-design based on Standards for Technological Literacy and Next Generation Science Standards; • real world, problem-based, hands-on integrated experiences through a rigorous and relevant engaging curriculum with authentic classroom and end-of-course assessments; • high-quality teacher training and professional development; and • support for the following Technology and Engineering Education Goals: <ol style="list-style-type: none"> 1. Provide a standards-based K-12 program that ensures all students are technologically literate 2. Provide opportunities for all students without regard to gender or ethnic origin 3. Provide clear standards and expectations for increasing student achievement in science, technology, engineering and math 4. Provide leadership and support that will produce continuous improvement and innovation in the program 5. Restore America's status as the leader in innovation 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
ALLOWABLE EXPENSES	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. Training Expenses <ul style="list-style-type: none"> • Lodging • Mileage to/from training • Meals/per person (receipts not required) • Teacher stipends Program <ul style="list-style-type: none"> • Core Training Registration Fee • Annual Participation Fee (first year only)

The Department of Elementary and Secondary Education does not discriminate on the basis of race, color, religion, gender, national origin, age, or disability 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, Office of the General Counsel, Coordinator - Civil Rights Compliance (Title VI/Title IX/504/ADA/Age Act), 6th 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.

INSTRUCTIONS CONTINUED

ALLOWABLE EXPENSES (Continued)	<p>Equipment and Materials</p> <ul style="list-style-type: none"> • Required by program or module • Non-consumable items over \$200 (per item, not bundled) kits are acceptable • Computer - Teacher (One per teacher being trained) • Computers or personal devices (not both) - student; 25 maximum; not warranties • Projectors and/or 3D printers when required
NON-ALLOWABLE EXPENSES	<ul style="list-style-type: none"> • Supplies - items less than \$200 per individual item or consumable (Individual items may not be bundled to equal \$200) • Furniture - desks, filing or storage cabinets • Items not required for module/course • National or state conference attendance expenses • CTSO-related expenses • Computer warranties
DOCUMENTATION SUBMISSION REQUIREMENTS	<p>Each building must submit the following documentation with appropriate signatures:</p> <ul style="list-style-type: none"> • Application • Assurances • Grant Program Implementation Plan • FV-4 - Application for Authorization of Career Education Expenditures • Copy of Contract or Memorandum of Understanding (MOU) with national organization to access program, curriculum materials and resources (cover and signature pages only) • Optional: Documentation of affiliation with Technology Student Association (TSA) <p>December 15, 2019, submission deadline:</p> <ul style="list-style-type: none"> • FV-2 - Expense reimbursement request with documentation • Grant Program Implementation Review
CALENDAR	<ul style="list-style-type: none"> • July 1, 2019 - June 30, 2020 - Grant period • May 29, 2019 - Application Submission Deadline – Postmarked or receipt of emailed application • July 1, 2019 - DESE Notification of Approval to applicants • Dates Vary - PLTW/EbD required teacher training • October - Missouri TSA Leadership Conference • December 15, 2019 - FV-2 Expense reimbursement request deadline with Grant Program Implementation Review • February 15, 2020 - DESE confirmation of final reimbursement • April 2020 - Missouri TSA Championship Conference

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.

TECHNOLOGY AND ENGINEERING GRANT ASSURANCES (Continued)

- 7. all grant funds are expended by December 15, 2019.
- 8. consideration of affiliation with Technology Student Association (TSA) that demonstrates integration with grant program curriculum along with advisor and student attendance 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
 - Understand EbD is **not** an approved career and technical education program

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
 ENGINEERING BY DESIGN (7-12) 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 THE FOLLOWING:

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