

SECOND REGULAR SESSION

[PERFECTED]

HOUSE COMMITTEE SUBSTITUTE FOR

# HOUSE BILL NO. 2255

99TH GENERAL ASSEMBLY

5968H.02P

D. ADAM CRUMBLISS, Chief Clerk

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## AN ACT

To repeal section 173.670, RSMo, and to enact in lieu thereof two new sections relating to the science, technology, engineering and mathematics (STEM) initiative.

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*Be it enacted by the General Assembly of the state of Missouri, as follows:*

Section A. Section 173.670, RSMo, is repealed and two new sections enacted in lieu thereof, to be known as sections 173.670 and 620.2700, to read as follows:

173.670. 1. There is hereby established within the department of higher education the "Missouri Science, Technology, Engineering and Mathematics Initiative". The department of higher education may award matching funds through this initiative to public institutions of higher education as part of the annual appropriations process.

2. The purpose of the initiative shall be to provide support to increase interest among elementary, secondary, and university students in fields of study related to science, technology, engineering, and mathematics and to increase the number of Missouri graduates in these fields at Missouri's public two- and four-year institutions of higher education.

3. **As used in this section, the following terms mean:**

**(1) "Educational benefits", the funds provided by an employer to a qualified individual or to an accredited educational institution for a period of up to five years to pay any portion of the tuition or fees for a qualified individual pursuing an advanced certificate, associate's degree, bachelor's degree, master's degree, or doctorate degree in a field of study related to health care, engineering, or information technology related programs;**

**(2) "Full-time position", an occupation lasting at least one year that consists of at least thirty hours of work per week;**

EXPLANATION — Matter enclosed in bold-faced brackets [thus] in the above bill is not enacted and is intended to be omitted from the law. Matter in **bold-face** type in the above bill is proposed language.

18           (3) "Internship", a program lasting at least eight weeks that consists of at least  
19 fifteen hours of work per week;

20           (4) "State tax liability", any liability incurred by a taxpayer under the provisions  
21 of chapter 143, excluding withholding tax imposed by sections 143.191 to 143.265, or the  
22 tax imposed in chapter 147, 148, or 153;

23           (5) "STEM field", a field involving science, technology, engineering, or  
24 mathematics.

25           4. There is hereby created a "Science, Technology, Engineering and Mathematics Fund",  
26 which shall consist of money collected under this section. The state treasurer shall be custodian  
27 of the fund and may approve disbursements from the fund in accordance with sections 30.170  
28 and 30.180. Upon appropriation, money in the fund shall be used solely for the administration  
29 of this section. Any moneys remaining in the fund at the end of the biennium shall not revert to  
30 the credit of the general revenue fund. The state treasurer shall invest moneys in the fund in the  
31 same manner as other funds are invested. Any interest and moneys earned on such investments  
32 shall be credited to the fund.

33           [4.] 5. As part of the initiative, the department of higher education shall develop a  
34 process to award grants to Missouri public two- and four-year institutions of higher education  
35 and school districts that have entered into articulation agreements to offer information  
36 technology certification through technical course work leading to postsecondary academic credit  
37 through the program established in section 173.675.

38           [5.] 6. The general assembly may appropriate funds to the science, technology,  
39 engineering[5] and mathematics fund to match institution funds to support the following  
40 programs, **as recommended by the department of higher education:**

41           (1) [~~Endowed teaching professor programs, which provide funds to support faculty who~~  
42 ~~teach undergraduate courses in science, technology, engineering, or mathematics fields at public~~  
43 ~~institutions of higher education;~~

44           —(2) Scholarship programs, which provide financial aid or loan forgiveness awards to  
45 Missouri students who study in the science, technology, engineering, or mathematics fields or  
46 who plan to enter the teaching field in Missouri with an emphasis on science, technology,  
47 engineering, and mathematics areas; **and**

48           [~~3~~] (2) Experiential youth programs [~~at public colleges or universities,~~] designed to  
49 provide Missouri middle school, junior high, and high school students with the opportunity to  
50 experience science, technology, engineering, and mathematics fields through camps or other  
51 educational offerings[5]

52 ~~———— (4) Career enhancement programs for current elementary and secondary teachers and~~  
53 ~~professors at Missouri public and private colleges and universities in the science, technology,~~  
54 ~~engineering, or mathematics fields to improve the quality of teaching].~~

55 **7. Any taxpayer in the state of Missouri who provides educational benefits or**  
56 **selects a student majoring in a STEM field who is attending a two-year or four-year public**  
57 **or private Missouri college or university for an internship located in the state of Missouri,**  
58 **or who selects a student who recently graduated with a degree in a STEM field from any**  
59 **two-year or four-year public or private Missouri college or university for a full-time**  
60 **position in a STEM field located in the state of Missouri, may apply to have ten thousand**  
61 **dollars of the taxpayer's state tax liability transferred from the general revenue fund and**  
62 **placed in the science, technology, engineering and mathematics fund established in**  
63 **subsection 4 of this section, upon approval by the department of higher education and**  
64 **appropriation by the general assembly. The department of higher education shall establish**  
65 **a procedure for approving applications under this section. For purposes of this subsection,**  
66 **the taxpayer's state tax liability shall be paid before a transfer under this subsection**  
67 **occurs. The cumulative amount of taxes transferred to the science, technology, engineering**  
68 **and mathematics fund under this subsection shall not exceed an annual total of two-**  
69 **hundred thousand dollars from all participating taxpayers in tax year 2019, with such**  
70 **amount adjusted annually for inflation as determined by the Consumer Price Index for all**  
71 **Urban Consumers for the United States as reported by the Bureau of Labor Statistics, or**  
72 **its successor index. In the event a donation is made to the fund from a third party, that**  
73 **donation shall not count towards such annual limit.**

74 **8. The department of higher education may promulgate all necessary rules and**  
75 **regulations for the administration of this section. Any rule or portion of a rule, as that**  
76 **term is defined in section 536.010, that is created under the authority delegated in this**  
77 **section shall become effective only if it complies with and is subject to all of the provisions**  
78 **of chapter 536 and, if applicable, section 536.028. This section and chapter 536 are**  
79 **nonseverable, and if any of the powers vested with the general assembly pursuant to**  
80 **chapter 536 to review, to delay the effective date, or to disapprove and annul a rule are**  
81 **subsequently held unconstitutional, then the grant of rulemaking authority and any rule**  
82 **proposed or adopted after August 28, 2018, shall be invalid and void.**

**620.2700. 1. Subject to appropriation, the department of elementary and secondary**  
2 **education shall establish a statewide program to be known as the "STEM Career**  
3 **Awareness Program" to increase STEM career awareness among students in grades six**  
4 **through eight. For purposes of this section, "STEM" means science, technology,**  
5 **engineering, and mathematics.**

6           **2. The department of elementary and secondary education shall promote the**  
7 **statewide program beginning in the 2019-20 school year. The program shall introduce**  
8 **students to a wide variety of STEM careers and technology through an online-based STEM**  
9 **curriculum.**

10           **3. Before January 1, 2019, the department of elementary and secondary education**  
11 **shall solicit proposals and select a provider for the online program. The program selected**  
12 **shall meet the following criteria:**

13           **(1) The program introduces students to a wide variety of STEM careers and**  
14 **technologies, including a curriculum explicitly focused on more than eighty different**  
15 **careers and technologies;**

16           **(2) The curriculum is organized around the concept of solving societal or human-**  
17 **centered problems, instead of focusing solely on scientific concepts. The curriculum shall**  
18 **have at least ten different problems that emphasize different career clusters;**

19           **(3) The curriculum is designed for flexible implementation in a wide variety of**  
20 **classrooms, including science, math, English, and social studies, through lessons that**  
21 **emphasize the application of STEM careers in these contexts;**

22           **(4) The curriculum demonstrates how math and language skills appropriate to**  
23 **middle schools are used by STEM careers, making classroom instruction relevant to**  
24 **students interested in STEM careers;**

25           **(5) The program uses game-based elements to encourage engagement and**  
26 **competition with students and teams, including automated online leaderboards;**

27           **(6) The program rewards students, in the game format, for accomplishment in**  
28 **demonstrating the application of math and language skills in the contexts of the STEM**  
29 **careers and technologies;**

30           **(7) The program automatically produces analytic reports for individual students**  
31 **and for classes, including analysis of performance against individual math and language**  
32 **skills objectives;**

33           **(8) The curriculum is available in a self-paced format over the internet, allowing**  
34 **access to students through individual student accounts anywhere that the students can**  
35 **access the internet;**

36           **(9) The curriculum includes a narrative soundtrack accompanying and matching**  
37 **all instructional text to assist students in developing reading skills in the context of STEM**  
38 **careers;**

39           **(10) The program has a validation from a national, third-party nonprofit**  
40 **organization that the program increases STEM career awareness and interest;**

41           (11) The program shall be listed as a recommended STEM resource in ACT's  
42 "Condition of STEM" 2015 report; and

43           (12) The program includes web-based professional development for school staff.

44           4. Notwithstanding subsections 2 and 3 of this section, the department of  
45 elementary and secondary education may choose a third-party nonprofit entity to  
46 implement the statewide program, solicit proposals, and select a provider as described  
47 under subsection 3 of this section.

48           5. (1) There is hereby created in the state treasury the "STEM Career Awareness  
49 Program Fund". The fund shall consist of any appropriations, gifts, bequests, or public  
50 or private donations to such fund. The state treasurer shall be custodian of the fund. In  
51 accordance with sections 30.170 and 30.180, the state treasurer may approve disbursements  
52 of public moneys in accordance with distribution requirements and procedures developed  
53 by the department of elementary and secondary education. The fund shall be a dedicated  
54 fund and, upon appropriation, moneys in the fund shall be used solely for the  
55 administration of this section.

56           (2) Notwithstanding the provisions of section 33.080 to the contrary, any moneys  
57 remaining in the fund at the end of the biennium shall not revert to the credit of the  
58 general revenue fund.

59           (3) The state treasurer shall invest moneys in the fund in the same manner as other  
60 funds are invested. Any interest and moneys earned on such investments shall be credited  
61 to the fund.

62           6. The department of elementary and secondary education may promulgate all  
63 necessary rules and regulations for the administration of this section. Any rule or portion  
64 of a rule, as that term is defined in section 536.010, that is created under the authority  
65 delegated in this section shall become effective only if it complies with and is subject to all  
66 of the provisions of chapter 536 and, if applicable, section 536.028. This section and  
67 chapter 536 are nonseverable, and if any of the powers vested with the general assembly  
68 pursuant to chapter 536 to review, to delay the effective date, or to disapprove and annul  
69 a rule are subsequently held unconstitutional, then the grant of rulemaking authority and  
70 any rule proposed or adopted after August 28, 2018, shall be invalid and void.

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