House ______ Amendment NO.____

	Offered By
1	AMEND Senate Substitute for Senate Committee Substitute for Senate Bill No. 549, Page 1,
2 3	Section A, Line 3, by inserting after all of said line the following:
4	"173.670. 1. There is hereby established within the department of higher education the
5	"Missouri Science, Technology, Engineering and Mathematics Initiative". The department of higher
6	education may award matching funds through this initiative to public institutions of higher
7	education as part of the annual appropriations process.
8	2. The purpose of the initiative shall be to provide support to increase interest among
9	elementary, secondary, and university students in fields of study related to science, technology,
10	engineering, and mathematics and to increase the number of Missouri graduates in these fields at
11	Missouri's public two- and four-year institutions of higher education.
12	3. As used in this section, the following terms mean:
13	(1) "Educational benefits", the funds provided by an employer to a qualified individual or to
14	an accredited educational institution for a period of up to five years to pay any portion of the tuition
15	or fees for a qualified individual pursuing an advanced certificate, associate's degree, bachelor's
16	degree, master's degree, or doctorate degree in a field of study related to health care, engineering, or
17	information technology related programs;
18	(2) "Full-time position", an occupation lasting at least one year that consists of at least thirty
19	hours of work per week;
20	(3) "Internship", a program lasting at least eight weeks that consists of at least fifteen hours
21 22	of work per week; (4) "State tay lightlity" any lightlity incurred by a taynover under the provisions of chapter
22	(4) "State tax liability", any liability incurred by a taxpayer under the provisions of chapter
23 24	143, excluding withholding tax imposed by sections 143.191 to 143.265, or the tax imposed in chapter 147, 148, or 153;
24 25	(5) "STEM field", a field involving science, technology, engineering, or mathematics.
23 26	<u>4.</u> There is hereby created a "Science, Technology, Engineering and Mathematics Fund",
27	which shall consist of money collected under this section. The state treasurer shall be custodian of
28	the fund and may approve disbursements from the fund in accordance with sections 30.170 and
29	30.180. Upon appropriation, money in the fund shall be used solely for the administration of this
30	section. Any moneys remaining in the fund at the end of the biennium shall not revert to the credit
31	of the general revenue fund. The state treasurer shall invest moneys in the fund in the same manner
32	as other funds are invested. Any interest and moneys earned on such investments shall be credited
33	to the fund.
34	[4.] 5. As part of the initiative, the department of higher education shall develop a process
35	to award grants to Missouri public two- and four-year institutions of higher education and school
36	districts that have entered into articulation agreements to offer information technology certification

Action Taken_____ Date _____

1 through technical course work leading to postsecondary academic credit through the program 2 established in section 173.675. 3 [5.] 6. The general assembly may appropriate funds to the science, technology, 4 engineering[-] and mathematics fund to match institution funds to support the following programs. 5 as recommended by the department of higher education: 6 (1) [Endowed teaching professor programs, which provide funds to support faculty who 7 teach undergraduate courses in science, technology, engineering, or mathematics fields at public 8 institutions of higher education; 9 (2)] Scholarship programs, which provide financial aid or loan forgiveness awards to 10 Missouri students who study in the science, technology, engineering, or mathematics fields or who 11 plan to enter the teaching field in Missouri with an emphasis on science, technology, engineering, 12 and mathematics areas: and 13 [(3)] (2) Experiential youth programs [at public colleges or universities,] designed to 14 provide Missouri middle school, junior high, and high school students with the opportunity to 15 experience science, technology, engineering, and mathematics fields through camps or other 16 educational offerings[; 17 (4) Career enhancement programs for current elementary and secondary teachers and 18 professors at Missouri public and private colleges and universities in the science, technology, 19 engineering, or mathematics fields to improve the quality of teaching]. 20 7. Any taxpayer in the state of Missouri who provides educational benefits or selects a 21 student majoring in a STEM field who is attending a two-year or four-year public or private Missouri college or university for an internship located in the state of Missouri, or who selects a 22 23 student who recently graduated with a degree in a STEM field from any two-year or four-year 24 public or private Missouri college or university for a full-time position in a STEM field located in 25 the state of Missouri, may apply to have ten thousand dollars of the taxpayer's state tax liability 26 transferred from the general revenue fund and placed in the science, technology, engineering and 27 mathematics fund established in subsection 4 of this section, upon approval by the department of 28 higher education and appropriation by the general assembly. The department of higher education 29 shall establish a procedure for approving applications under this section. For purposes of this 30 subsection, the taxpayer's state tax liability shall be paid before a transfer under this subsection 31 occurs. The cumulative amount of taxes transferred to the science, technology, engineering and 32 mathematics fund under this subsection shall not exceed an annual total of two-hundred thousand 33 dollars from all participating taxpavers in tax year 2019, with such amount adjusted annually for 34 inflation as determined by the Consumer Price Index for all Urban Consumers for the United States 35 as reported by the Bureau of Labor Statistics, or its successor index. In the event a donation is made 36 to the fund from a third party, that donation shall not count towards such annual limit. 37 8. The department of higher education may promulgate all necessary rules and regulations 38 for the administration of this section. Any rule or portion of a rule, as that term is defined in section 39 536.010, that is created under the authority delegated in this section shall become effective only if it 40 complies with and is subject to all of the provisions of chapter 536 and, if applicable, section 41 536.028. This section and chapter 536 are nonseverable, and if any of the powers vested with the general assembly pursuant to chapter 536 to review, to delay the effective date, or to disapprove and 42 43 annul a rule are subsequently held unconstitutional, then the grant of rulemaking authority and any rule proposed or adopted after August 28, 2018, shall be invalid and void."; and 44 45 46 Further amend said bill, Page 14, Section 620.2020, Line 213, by inserting after all of said line the 47 following:

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1	" <u>620.2700. 1. Subject to appropriation, the department of elementary and secondary</u>
2	education shall establish a statewide program to be known as the "STEM Career Awareness
3	Program" to increase STEM career awareness among students in grades six through eight. For
4	purposes of this section, "STEM" means science, technology, engineering, and mathematics.
5	2. The department of elementary and secondary education shall promote the statewide
6	program beginning in the 2019-20 school year. The program shall introduce students to a wide
7 8	variety of STEM careers and technology through an online-based STEM curriculum.
	3. Before January 1, 2019, the department of elementary and secondary education shall
9	solicit proposals and select a provider for the online program. The program selected shall meet the
10	following criteria:
11 12	(1) The program introduces students to a wide variety of STEM careers and technologies,
12	including a curriculum explicitly focused on more than eighty different careers and technologies; (2) The curriculum is organized around the concept of solving societal or human-centered
13	problems, instead of focusing solely on scientific concepts. The curriculum shall have at least ten
14	different problems that emphasize different career clusters;
16	(3) The curriculum is designed for flexible implementation in a wide variety of classrooms,
17	including science, math, English, and social studies, through lessons that emphasize the application
18	of STEM careers in these contexts;
19	(4) The curriculum demonstrates how math and language skills appropriate to middle
20	schools are used by STEM careers, making classroom instruction relevant to students interested in
21	STEM careers;
22	(5) The program uses game-based elements to encourage engagement and competition with
23	students and teams, including automated online leaderboards;
24	(6) The program rewards students, in the game format, for accomplishment in
25	demonstrating the application of math and language skills in the contexts of the STEM careers and
26	technologies;
27	(7) The program automatically produces analytic reports for individual students and for
28	classes, including analysis of performance against individual math and language skills objectives;
29	(8) The curriculum is available in a self-paced format over the internet, allowing access to
30	students through individual student accounts anywhere that the students can access the internet;
31	(9) The curriculum includes a narrative soundtrack accompanying and matching all
32	instructional text to assist students in developing reading skills in the context of STEM careers;
33	(10) The program has a validation from a national, third-party nonprofit organization that
34	the program increases STEM career awareness and interest;
35	(11) The program shall be listed as a recommended STEM resource in ACT's "Condition of
36	STEM" 2015 report; and
37	(12) The program includes web-based professional development for school staff.
38	4. Notwithstanding subsections 2 and 3 of this section, the department of elementary and
39	secondary education may choose a third-party nonprofit entity to implement the statewide program,
40	solicit proposals, and select a provider as described under subsection 3 of this section.
41	5. (1) There is hereby created in the state treasury the "STEM Career Awareness Program
42	Fund". The fund shall consist of any appropriations, gifts, bequests, or public or private donations
43	to such fund. The state treasurer shall be custodian of the fund. In accordance with sections 30.170
44	and 30.180, the state treasurer may approve disbursements of public moneys in accordance with
45	distribution requirements and procedures developed by the department of elementary and secondary
46	education. The fund shall be a dedicated fund and, upon appropriation, moneys in the fund shall be
47	used solely for the administration of this section.
48	(2) Notwithstanding the provisions of section 33.080 to the contrary, any moneys remaining

in the fund at the end of the biennium shall not revert to the credit of the general revenue fund. 1 2 (3) The state treasurer shall invest moneys in the fund in the same manner as other funds are 3 invested. Any interest and moneys earned on such investments shall be credited to the fund. 4 6. The department of elementary and secondary education may promulgate all necessary 5 rules and regulations for the administration of this section. Any rule or portion of a rule, as that 6 term is defined in section 536.010, that is created under the authority delegated in this section shall 7 become effective only if it complies with and is subject to all of the provisions of chapter 536 and, if 8 applicable, section 536.028. This section and chapter 536 are nonseverable, and if any of the 9 powers vested with the general assembly pursuant to chapter 536 to review, to delay the effective 10 date, or to disapprove and annul a rule are subsequently held unconstitutional, then the grant of rulemaking authority and any rule proposed or adopted after August 28, 2018, shall be invalid and 11 void."; and 12

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14 Further amend said bill by amending the title, enacting clause, and intersectional references

15 accordingly.