Senator Howard A. Stephenson proposes the following substitute bill:

	COMPUTER SCIENCE INITIATIVE FOR PUBLIC SCHOOLS
	2016 GENERAL SESSION
	STATE OF UTAH
	Chief Sponsor: Howard A. Stephenson
	House Sponsor: Bradley G. Last
LONG T	ITLE
General	Description:
Tł	is bill enacts provisions regarding computer science instruction in public schools.
Highligh	ted Provisions:
Tł	nis bill:
•	defines terms;
•	creates the computer science initiative;
•	requires the STEM Action Center Board and the State Board of Education to
collabora	e to develop and implement the initiative; and
•	requires the STEM Action Center Board to include information on the initiative in
the board	s annual report to the Education Interim Committee.
Money A	ppropriated in this Bill:
Tł	nis bill appropriates:
►	to the Governor's Office of Economic Development - STEM Action Center, as an
ongoing a	ppropriation:
	• from the General Fund, \$770,000.
Other Sp	ecial Clauses:
Tł	is bill provides a special effective date.
Utah Coo	le Sections Affected:



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26	ENACTS:
27	63N-12-213, Utah Code Annotated 1953
28	
29	Be it enacted by the Legislature of the state of Utah:
30	Section 1. Section 63N-12-213 is enacted to read:
31	63N-12-213. Computer science initiative for public schools.
32	(1) As used in this section:
33	(a) "Computational thinking" means the set of problem-solving skills and techniques
34	that software engineers use to write programs that underlie computer applications, including
35	decomposition, pattern recognition, pattern generalization, and algorithm design.
36	(b) "Computer coding" means the process of writing script for a computer program or
37	mobile device.
38	(c) "Educator" means the same as that term is defined in Section 53A-6-103.
39	(d) "Endorsement" means a stipulation, authorized by the State Board of Education and
40	appended to a license, that specifies the areas of practice to which the license applies.
41	(e) (i) "Institution of higher education" has the same meaning as that term is defined in
42	Section 53B-3-102.
43	(ii) "Institution of higher education" includes the Utah College of Applied Technology.
44	(f) "Employer" means a private employer, public employer, industry association, the
45	military, or a union.
46	(g) "License" means the same as that term is defined in Section 53A-6-103.
47	(h) "Stackable sequence of credentials" means a sequence of credentials that:
48	(i) an individual can build upon to access an advanced job or higher wage;
49	(ii) is part of a career pathway system;
50	(iii) provides a pathway culminating in the equivalent of an associate's or bachelor's
51	degree;
52	(iv) facilitates multiple exit and entry points; and
53	(v) recognizes sub-goals or momentum points.
54	(2) On behalf of the board, the staff of the board and the staff of the State Board of
55	Education shall collaborate to develop and implement a computer science initiative for public
56	schools by:

56 <u>schools by:</u>

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57	(a) creating an online repository that:
58	(i) is available for school districts and charter schools to use as a resource; and
59	(ii) includes high quality computer science instructional resources that are designed to
60	teach students in all grade levels:
61	(A) computational thinking skills; and
62	(B) computer coding skills;
63	(b) providing for professional development on teaching computer science by:
64	(i) including resources for educators related to teaching computational thinking and
65	computer coding in the STEM education high quality professional development application
66	described in Section 63N-12-210; and
67	(ii) providing statewide or regional professional development institutes; and
68	(c) distributing grants to a school district or charter school, on a competitive basis, that
69	may be used for the purposes described in Subsection (4).
70	(3) A school district or charter school may enter into an agreement with one or more of
71	the following entities to jointly apply for a grant under Subsection (2)(c):
72	(a) a school district;
73	(b) a charter school;
74	(c) an employer;
75	(d) an institution of higher education; or
76	(e) a non-profit organization.
77	(4) A grant described in Subsection (2)(c) may be used for the following purposes
78	related to computer science:
79	(a) providing incentives for an educator to earn a computer science endorsement;
80	(b) conducting industry engagement activities;
81	(c) providing face-to-face mentoring, coaching, or training;
82	(d) creating a stackable sequence of credentials; or
83	(e) conducting student outreach, recruitment, and retention efforts.
84	(5) To apply for a grant described in Subsection (2)(c), a school district or charter
85	school shall submit a plan to the board for the use of the grant, including a statement of
86	purpose that describes the learning objectives, goals, and measurable outcomes the school
87	district or charter school will accomplish by conducting one or more of the purposes described

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88	in Subsection (4).
89	(6) The board and the State Board of Education shall encourage schools to
90	independently pursue computer science and coding initiatives, subject to local school board or
91	charter school governing board approval, based on the unique needs of the school's students.
92	(7) The board shall include information on the status of the computer science initiative
93	in the annual report described in Section 63N-12-208.
94	Section 2. Appropriation.
95	Under the terms and conditions of Title 63J, Chapter 1, Budgetary Procedures Act, for
96	the fiscal year beginning July 1, 2016, and ending June 30, 2017, the following sums of money
97	are appropriated from resources not otherwise appropriated, or reduced from amounts
98	previously appropriated, out of the funds or amounts indicated. These sums of money are in
99	addition to amounts previously appropriated for fiscal year 2017.
100	To Governor's Office of Economic Development — STEM Action Center
101	From General Fund \$770,000
102	Schedule of Programs:
103	STEM Action Center \$770,000
103 104	STEM Action Center\$770,000The Legislature intends that:
104	The Legislature intends that:
104 105	The Legislature intends that: (1) the Governor's Office of Economic Development use:
104 105 106	The Legislature intends that: (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described
104 105 106 107	<u>The Legislature intends that:</u> (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described
104 105 106 107 108	The Legislature intends that: (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(4)(a); and
104 105 106 107 108 109	The Legislature intends that: (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(4)(a); and (b) up to \$150,000 of the appropriation provided in this section for administration of
104 105 106 107 108 109 110	The Legislature intends that: (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(4)(a); and (b) up to \$150,000 of the appropriation provided in this section for administration of the initiative described in Section 63N-12-213; and
104 105 106 107 108 109 110 111	The Legislature intends that: (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(4)(a); and (b) up to \$150,000 of the appropriation provided in this section for administration of the initiative described in Section 63N-12-213; and (2) under Section 63J-1-603, appropriations under this section not lapse at the close of
104 105 106 107 108 109 110 111 112	The Legislature intends that: (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(4)(a); and (b) up to \$150,000 of the appropriation provided in this section for administration of the initiative described in Section 63N-12-213; and (2) under Section 63J-1-603, appropriations under this section not lapse at the close of fiscal year 2017.
104 105 106 107 108 109 110 111 112 113	The Legislature intends that: (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(4)(a); and (b) up to \$150,000 of the appropriation provided in this section for administration of the initiative described in Section 63N-12-213; and (2) under Section 63J-1-603, appropriations under this section not lapse at the close of fiscal year 2017. Section 3. Effective date.
104 105 106 107 108 109 110 111 112 113 114	The Legislature intends that: (1) the Governor's Office of Economic Development use: (a) at least \$620,000 of the appropriation provided in this section for grants described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described in Subsection 63N-12-213(4)(a); and (b) up to \$150,000 of the appropriation provided in this section for administration of the initiative described in Section 63N-12-213; and (2) under Section 63J-1-603, appropriations under this section not lapse at the close of fiscal year 2017. Section 3. Effective date. If approved by two-thirds of all the members elected to each house, this bill takes effect