24 **LONG TITLE**

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25	General Description:
26	This bill creates educational programs for science, technology, engineering, and
27	mathematics (STEM).
28	Highlighted Provisions:
29	This bill:
30	 creates a Science, Technology, Engineering, and Mathematics (STEM) Action
31	Center Board;
32	requires the STEM Action Center Board to:
33	 establish a STEM Action Center; and
34	 appoint an executive director to oversee administration of the STEM Action
35	Center;
36	 requires the Governor's Office of Economic Development to staff the STEM Action
37	Center Board and the STEM Action Center;
38	 requires the STEM Action Center Board to select providers, through a request for
39	proposals process, to provide education related instructional technology;
40	 requires the STEM Action Center Board to work with private industry to obtain
41	private funding and support for the STEM Action Center;
42	 as funding allows, requires the STEM Action Center Board to perform certain
43	duties related to the STEM Action Center;
44	 requires the executive director to track student achievement and progress in STEM
45	areas;
46	 requires the STEM Action Center Board to report to the Education Interim

- allows the State Board of Education staff and STEM Action Center staff to award
- 51 STEM education related instructional technology and related professional
- 52 development to school districts and charter schools for instructional technology for

Committee, the Public Education Appropriations Subcommittee, and the State

53 STEM related education if certain conditions are met;

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- 54 ▶ provides that the acquisition of certain education related instructional technology
- may be acquired through a direct award or sole source procurement process for

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56	purposes of conducting a pilot; and
57	 eliminates certain duties of the State Advisory Council on Science and Technology
58	related to science and technology fairs and camps.
59	Money Appropriated in this Bill:
60	This bill appropriates in fiscal year 2014:
61	 to Governor's Office of Economic Development - STEM Action Center, as an
62	ongoing appropriation:
63	• from the General Fund, \$1,500,000; and
64	 to Governor's Office of Economic Development - STEM Action Center, as a
65	one-time appropriation:
66	• from the General Fund, \$8,500,000.
67	Other Special Clauses:
68	This bill provides an effective date.
69	Utah Code Sections Affected:
70	AMENDS:
71	63M-1-608, as renumbered and amended by Laws of Utah 2008, Chapter 382
72	ENACTS:
73	63M-1-3201 , Utah Code Annotated 1953
74	63M-1-3202 , Utah Code Annotated 1953
75	63M-1-3203 , Utah Code Annotated 1953
76	63M-1-3204 , Utah Code Annotated 1953
77	63M-1-3205 , Utah Code Annotated 1953
78	63M-1-3206 , Utah Code Annotated 1953
79	63M-1-3207 , Utah Code Annotated 1953
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81	Be it enacted by the Legislature of the state of Utah:
82	Section 1. Section 63M-1-608 is amended to read:
83	63M-1-608. Science education program.
84	(1) (a) There is established an informal science and technology education program
85	within the Governor's Office of Economic Development.

(b) The state science advisor shall act as the executive director of the program.

8/	(c) The State Advisory Council on Science and Technology shall advise the program,	
88	including:	
89	(i) approving all money expended by the science and technology education program;	
90	(ii) approving all operations of the program; and	
91	(iii) making policies and procedures to govern the program.	
92	(2) The program may:	
93	(a) provide informal science and technology-based education to elementary and	
94	secondary students;	
95	(b) expose public education students to college level science and technology	
96	disciplines; and	
97	[(c) administer a science and technology camp program; and]	
98	[(d)] (c) provide other informal promotion of science and technology education in	
99	[this] the state[, including the direct sponsorship of science fairs and science olympiads].	
100	[(3) The science and technology camp program described under Subsection (2)(c) shall	
101	be:]	
102	[(a) provided exclusively for elementary and secondary students and their teachers;]	
103	[(b) established as a grant program for camp providers; and]	
104	[(c) administered based upon annual requests for proposals, a documented review	
105	process, and grant awards.]	
106	Section 2. Section 63M-1-3201 is enacted to read:	
107	Part 32. Science, Technology, Engineering, and Mathematics Action Center	
108	<u>63M-1-3201.</u> Definitions.	
109	As used in this part:	
110	(1) "Board" means the STEM Action Center Board created in Section 63M-1-3202.	
111	(2) "Educator" has the meaning defined in Section 53A-6-103.	
112	(3) "Office" means the Governor's Office of Economic Development.	
113	(4) "Provider" means a provider, selected by staff of the board and staff of the Utah	
114	State Board of Education, on behalf of the board:	
115	(a) through a request for proposals process; or	
116	(b) through a direct award or sole source procurement process for a pilot described in	
117	Section 63M-1-3205.	

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118	(5) "STEM" means science, technology, engineering, and mathematics.	
119	(6) "STEM Action Center" means the center described in Section 63M-1-3204.	
120	Section 3. Section 63M-1-3202 is enacted to read:	
121	63M-1-3202. STEM Action Center Board creation Membership.	
122	(1) There is created the STEM Action Center Board within the office, composed of the	
123	following members:	
124	(a) four private sector members who represent business, appointed by the governor;	
125	(b) the state superintendent of public instruction or the state superintendent of public	
126	instruction's designee;	
127	(c) the commissioner of higher education or the commissioner of higher education's	
128	designee;	
129	(d) one member appointed by the governor;	
130	(e) a member of the State Board of Education, chosen by the chair of the State Board of	
131	Education; and	
132	(f) the executive director of the Governor's Office of Economic Development or the	
133	executive director of the Governor's Office of Economic Development's designee.	
134	(2) (a) Except as required by Subsection (2)(b), members appointed by the governor	
135	shall be appointed to four-year terms.	
136	(b) The length of terms of the members shall be staggered so that approximately half of	
137	the committee is appointed every two years.	
138	(c) The members may not serve more than two full consecutive terms except where the	
139	governor determines that an additional term is in the best interest of the state.	
140	(d) When a vacancy occurs in the membership for any reason, the replacement shall be	
141	appointed for the unexpired term.	
142	(3) Attendance of a simple majority of the members constitutes a quorum for the	
143	transaction of official committee business.	
144	(4) Formal action by the committee requires a majority vote of a quorum.	
145	(5) A member may not receive compensation or benefits for the member's service, but	
146	may receive per diem and travel expenses in accordance with:	
147	(a) Section 63A-3-106;	
148	(b) Section 63A-3-107; and	

149	(c) rules made by the Division of Finance pursuant to Sections 63A-3-106 and
150	<u>63A-3-107.</u>
151	(6) The governor shall select the chair of the board to serve a one-year term.
152	(7) The executive director of the Governor's Office of Economic Development or the
153	executive director of the Governor's Office of Economic Development's designee shall serve as
154	the vice chair of the board.
155	(8) The state science advisor described in Section 63M-1-606 and the office shall
156	provide staff support to the board.
157	Section 4. Section 63M-1-3203 is enacted to read:
158	63M-1-3203. STEM Action Center Board Duties.
159	(1) The board shall:
160	(a) establish a STEM Action Center program to:
161	(i) coordinate STEM activities in the state among the following stakeholders:
162	(A) the State Board of Education;
163	(B) school districts and charter schools;
164	(C) the State Board of Regents;
165	(D) institutions of higher education;
166	(E) parents of home-schooled students; and
167	(F) other state agencies;
168	(ii) align public education STEM activities with higher education STEM activities; and
169	(iii) create and coordinate best practices among public education and higher education;
170	(b) select a physical location for the STEM Action Center;
171	(c) strategically engage industry and business entities to cooperate with the board:
172	(i) to support professional development and provide other assistance for educators and
173	students; and
174	(ii) to provide private funding and support for the STEM Action Center;
175	(d) give direction to the STEM Action Center and the providers selected through a
176	request for proposals process pursuant to this part; and
177	(e) work to meet the following expectations:
178	(i) that at least 50 educators are implementing best practice learning tools in
170	classrooms per each product specialist or manager working with the STEM Action Center:

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180	(ii) performance change in student achievement in each classroom working with a
181	STEM Action Center product specialist or manager; and
182	(iii) that students from at least 50 high schools participate in the STEM competitions,
183	fairs, and camps described in Subsection 63M-1-3204(2)(d).
184	(2) The board may:
185	(a) enter into contracts for the purposes of this part;
186	(b) apply for, receive, and disburse funds, contributions, or grants from any source for
187	the purposes set forth in this part;
188	(c) employ, compensate, and prescribe the duties and powers of individuals necessary
189	to execute the duties and powers of the board;
190	(d) prescribe the duties and powers of the STEM Action Center providers; and
191	(e) in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act,
192	make rules to administer this part.
193	Section 5. Section 63M-1-3204 is enacted to read:
194	63M-1-3204. STEM Action Center Program.
195	(1) As funding allows, the board shall:
196	(a) establish a STEM Action Center;
197	(b) appoint an executive director to oversee the administration of the STEM Action
198	Center;
199	(c) ensure that the STEM Action Center:
200	(i) is accessible by the public; and
201	(ii) includes the components described in Subsection (2);
202	(d) work cooperatively with the State Board of Education to acquire technology and
203	select schools as described in Sections 63M-1-3205 and 63M-1-3206; and
204	(e) engage private entities to provide financial support or employee time for STEM
205	activities in schools in addition to what is currently provided by private entities.
206	(2) As funding allows, the executive director of the STEM Action Center shall:
207	(a) support professional development for educators regarding education related
208	instructional technology that supports STEM education;
209	(b) ensure that the STEM Action Center acts as a research and development center for
210	education related instructional technology acquired through a request for proposals process

211	described in Section 63M-1-3205;
212	(c) review and acquire education related technology for:
213	(i) educator professional development;
214	(ii) assessment, data collection, analysis, and reporting; and
215	(iii) public school instruction;
216	(d) facilitate participation in interscholastic STEM related competitions, fairs, and
217	camps;
218	(e) engage private industry in the development and maintenance of the STEM Action
219	<u>Center</u> ;
220	(f) use resources to bring the latest STEM education learning tools into public
221	education classrooms;
222	(g) identify at least 10 best practice innovations used in Utah schools that have resulted
223	in at least 80% of students performing at grade level in STEM areas;
224	(h) identify best practices being used outside the state and implement selected practices
225	through a pilot program;
226	(i) identify:
227	(i) three learning tools for kindergarten through grade 6 identified as best practices; and
228	(ii) three learning tools per STEM subject for grades 7 through 12 identified as best
229	practices;
230	(j) provide a Utah best practices database, including best practices from public
231	education, higher education, the Utah Education Network, and other STEM related entities;
232	(k) keep track of the following items related to the best practices database described in
233	Subsection (2)(j):
234	(i) how the best practices database is being used; and
235	(ii) how many individuals are using the database, including the demographics of the
236	users, if available;
237	(1) join and participate in a national STEM network;
238	(m) identify performance changes linked to use of the best practices database described
239	in Subsection (2)(j);
240	(n) work cooperatively with the State Board of Education to designate schools as
241	STEM schools, where the schools have agreed to adopt a plan of STEM implementation in

242	alignment with criteria set by the State Board of Education and the board;
243	(o) support best methods of professional development, including methods of
244	professional development that reduce cost and increase effectiveness, to help educators learn
245	how to most effectively implement best practice learning tools in classrooms;
246	(p) recognize a high school's achievement in the STEM competitions, fairs, and camps
247	described in Subsection (2)(d);
248	(q) send student results from STEM competitions, fairs, and camps described in
249	Subsection (2)(d) to media and ask the media to report on them;
250	(r) develop and distribute STEM toolkits to parents of students being served by the
251	STEM Action Center;
252	(s) support targeted professional development for improved instruction in STEM in
253	grades 6, 7, and 8, including:
254	(i) improved instructional materials that are dynamic and engaging for students;
255	(ii) targeted instruction for students who traditionally avoid enrolling in STEM
256	courses;
257	(iii) introduction of engaging engineering courses; and
258	(iv) introduction of other research-based methods that support student achievement in
259	STEM areas; and
260	(t) ensure that an online college readiness assessment tool developed by the State
261	Board of Regents be accessible by:
262	(i) public education students; and
263	(ii) higher education students.
264	(3) The board may prescribe other duties for the STEM Action Center in addition to
265	the responsibilities described in this section.
266	(4) (a) The executive director shall track and compare the student performance of
267	students participating in a STEM Action Center program to all other similarly situated students
268	in the state, in the following STEM related activities, at the beginning and end of each year:
269	(i) public education high school graduation rates;
270	(ii) the number of students taking a remedial mathematics course at an institution of
271	higher education described in Section 53B-1-102;
272	(iii) the number of students who graduate from a Utah public school and begin a

273	postsecondary education program; and
274	(iv) the number of students, as compared to all similarly situated students, who are
275	performing at grade level in STEM classes.
276	(b) The State Board of Education and the State Board of Regents shall provide
277	information to the board to assist the board in complying with the requirements of Subsection
278	(4)(a) if allowed under federal law.
279	Section 6. Section 63M-1-3205 is enacted to read:
280	63M-1-3205. Acquisition of STEM education related instructional technology
281	program Research and development of education related instructional technology
282	through a pilot program.
283	(1) For purposes of this section:
284	(a) "Pilot" means a pilot of the program.
285	(b) "Program" means the STEM education related instructional technology program
286	created in Subsection (2).
287	(2) (a) There is created the STEM education related instructional technology program
288	to provide public schools the STEM education related instructional technology described in
289	Subsection (3).
290	(b) On behalf of the board, the staff of the board and the staff of the State Board of
291	Education shall collaborate and may select one or more providers, through a request for
292	proposals process, to provide STEM education related instructional technology to school
293	districts and charter schools.
294	(c) On behalf of the board, the staff of the board and the staff of the State Board of
295	Education shall consider and may accept an offer from a provider in response to the request for
296	proposals described in Subsection (2)(b) even if the provider did not participate in a pilot
297	described in Subsection (4).
298	(3) The STEM education related instructional technology shall:
299	(a) support mathematics instruction for students in grades 6, 7, or 8; or
300	(b) support mathematics instruction for secondary students to prepare the secondary
301	students for college mathematics courses.
302	(4) Before issuing a request for proposals described in Subsection (2), on behalf of the
303	hoard, the staff of the hoard and the staff of the State Board of Education shall collaborate and

304	<u>may:</u>
305	(a) conduct a pilot of the program to test and select providers for the program;
306	(b) select at least two providers through a direct award or sole source procurement
307	process for the purpose of conducting the pilot; and
308	(c) select schools to participate in the pilot.
309	Section 7. Section 63M-1-3206 is enacted to read:
310	63M-1-3206. Grants to schools for STEM education instructional technology.
311	(1) Subject to legislative appropriations, on behalf of the board, the staff of the board
312	and the staff of the State Board of Education shall collaborate and shall:
313	(a) distribute STEM education related instructional technology described in Section
314	63M-1-3205 to school districts and charter schools; and
315	(b) provide related professional development to the school districts and charter schools
316	that receive STEM education related instructional technology as described in Subsection (1)(a)
317	(2) A school district or charter school may apply to the board, through a competitive
318	process, to receive STEM education related instructional technology from the board.
319	(3) A school district or charter school that receives STEM education related
320	instructional technology and professional development as described in this section shall
321	provide the school district's or charter school's own computer hardware.
322	Section 8. Section 63M-1-3207 is enacted to read:
323	63M-1-3207. Report to Legislature and the State Board of Education.
324	(1) The board shall report the progress of the STEM Action Center, including the
325	information described in Subsection (2), to the following groups once each year:
326	(a) the Education Interim Committee;
327	(b) the Public Education Appropriations Subcommittee; and
328	(c) the State Board of Education.
329	(2) The report described in Subsection (1) shall include information that demonstrates
330	the effectiveness of the program, including:
331	(a) the number of educators receiving professional development;
332	(b) the number of students receiving services from the STEM Action Center;
333	(c) a list of the providers selected pursuant to this part;
334	(d) a report on the STEM Action Center's fulfilment of its duties described in

335	Subsection 63M-1-3204; and	
336	(e) student performance of students participating in a STEM Action Center progra	am as
337	collected in Subsection 63M-1-3204(5).	
338	Section 9. Appropriation.	
339	Under the terms and conditions of Title 63J, Chapter 1, Budgetary Procedures Act	, for
340	the fiscal year beginning July 1, 2013, and ending June 30, 2014, the following sums of m	noney
341	are appropriated from resources not otherwise appropriated, or reduced from amounts	
342	previously appropriated, out of the funds or accounts indicated. These sums of money are	<u>e in</u>
343	addition to any amounts previously appropriated for fiscal year 2014.	
344	To Governor's Office of Economic Development - STEM Action Center	
345	From General Fund	\$1,500,000
346	From General Fund, one-time	\$8,500,000
347	Schedule of Programs:	
348	STEM Action Center \$10,000,000	
349	The Legislature intends that:	
350	(1) up to \$1,500,000 of the appropriation for STEM Action Center be used to esta	<u>ablish</u>
351	a STEM Action Center as described in Section 63M-1-3204;	
352	(2) at least \$5,000,000 of the appropriation for STEM Action Center be used for	
353	education related instructional technology, related professional development to support	
354	mathematics instruction for students in grades 6, 7, or 8 as described in Subsection	
355	63M-1-3205(3)(a) and Section 63M-1-3206, and related assessment, data collection, analysis	<u>ysis,</u>
356	and reporting;	
357	(3) at least \$3,500,000 of the appropriation for STEM Action Center be used for	
358	education related instructional technology and related professional development to support	<u>rt</u>
359	mathematics instruction for secondary students to prepare the secondary students for colle	<u>ege</u>
360	mathematics courses as described in Subsection 63M-1-3205(3)(b) and Section 63M-1-32	<u>206,</u>
361	and related assessment, data collection, analysis, and reporting;	
362	(4) that the appropriation described in Subsection (1):	
363	(a) be ongoing; and	
364	(b) not lapse at the close of fiscal year 2014; and	
365	(5) that the appropriations described in Subsections (2) and (3):	

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366	(a) be one-time; and
367	(b) not lapse at the close of fiscal year 2014.
368	Section 10. Effective date.
369	(1) Except as provided in Subsection (2), if approved by two-thirds of all the members
370	elected to each house, this bill takes effect upon approval by the governor, or the day following
371	the constitutional time limit of Utah Constitution Article VII, Section 8, without the governor's
372	signature, or in the case of a veto, the date of veto override.
373	(2) Uncodified Section 9, Appropriation, takes effect on July 1, 2013.