

1 **EMERGING TECHNOLOGY TALENT INITIATIVE**

2 2020 GENERAL SESSION

3 STATE OF UTAH

4 **Chief Sponsor: Ann Millner**

5 House Sponsor: Val L. Peterson

7 **LONG TITLE**

8 **General Description:**

9 This bill creates a deep technology talent initiative within higher education.

10 **Highlighted Provisions:**

11 This bill:

- 12 ▶ defines terms, including "deep technology";
- 13 ▶ creates and describes a deep technology talent initiative that will be developed and
- 14 overseen by the State Board of Regents;
- 15 ▶ describes what entities may participate in and create proposals to receive funding
- 16 under the deep technology talent initiative;
- 17 ▶ describes the requirements and process for receiving funding under the deep
- 18 technology talent initiative; and
- 19 ▶ creates an advisory council to make recommendations to the State Board of Regents
- 20 regarding submitted proposals for funding under the deep technology talent
- 21 initiative.

22 **Money Appropriated in this Bill:**

23 This bill appropriates:

- 24 ▶ to the State Board of Regents -- Economic Development -- Deep Technology Talent
- 25 Initiative, as an ongoing appropriation:
- 26 • from the Workforce Development Restricted Account, \$5,000,000.

27 **Other Special Clauses:**

28 None

29 **Utah Code Sections Affected:**

30 ENACTS:

31 **53B-26-301**, Utah Code Annotated 1953

32 **53B-26-302**, Utah Code Annotated 1953

33 **53B-26-303**, Utah Code Annotated 1953



35 *Be it enacted by the Legislature of the state of Utah:*

36 Section 1. Section **53B-26-301** is enacted to read:

37 **Part 3. Deep Technology Initiative**

38 **53B-26-301. Definitions.**

39 As used in this part:

40 (1) "Advisory council" means the Deep Technology Talent Advisory Council created
41 in Section **53B-26-303**.

42 (2) (a) "Deep technology" means technology that leads to new products and
43 innovations based on scientific discovery or meaningful engineering innovation.

44 (b) "Deep technology" may include technology that leads to new products and
45 innovations related to one or more of the following:

46 (i) advanced materials;

47 (ii) artificial intelligence;

48 (iii) augmented and virtual reality;

49 (iv) biotechnology;

50 (v) photonics;

51 (vi) quantum computing;

52 (vii) robotics;

53 (viii) secure computing; and

54 (ix) other emerging technologies as determined by the advisory council.

55 (3) "Institution of higher education" means the University of Utah, Utah State
56 University, Southern Utah University, Weber State University, Snow College, Dixie State
57 University, Utah Valley University, or Salt Lake Community College.

58 Section 2. Section **53B-26-302** is enacted to read:

59 **53B-26-302. Deep technology initiative.**

60 (1) Subject to appropriations from the Legislature and in accordance with the proposal
61 process and other provisions of this section, the board shall develop and oversee a deep
62 technology talent initiative that includes providing funding for expanded programs in deep
63 technology.

64 (2) The board shall facilitate collaborations that create expanded, multidisciplinary
65 programs or stackable credential programs in both undergraduate and graduate studies that
66 prepare students to be workforce participants in jobs requiring deep technology skills.

67 (3) An institution of higher education seeking to partner with one or more participating
68 employers shall submit a proposal to the board, in a form approved by the board and in
69 accordance with deadlines determined by the board, which contains the following elements:

70 (a) a description of the proposed program in deep technology that demonstrates the
71 program will:

72 (i) be responsive to the deep technology talent needs of the state through industry
73 involvement in the project's design;

74 (ii) be a partnership that includes at least one participating employer and at least one
75 institution of higher education; and

76 (iii) address a previously unmet state need related to deep technology;

77 (b) an estimate of:

78 (i) student enrollment in the program;

79 (ii) what academic credit or credentials will be provided by the program; and

80 (iii) occupations for which graduates will be qualified;

81 (c) evidence that each participating employer is committed to participating and
82 contributing to the program by providing any combination of instruction, extensive workplace
83 experience, or mentoring;

84 (d) a description of any resources that will be provided by each participating employer
85 in the program; and

86 (e) the amount of funding requested for the program, including justification for the
87 funding.

88 (4) The board shall provide all proposals to the advisory council and the advisory
89 council shall review and prioritize each proposal received and recommend to the board whether
90 the proposal should be funded, including the recommended amount of funding, using the
91 following criteria:

92 (a) the quality and completeness of the elements of the proposal described in
93 Subsection (3);

94 (b) to what extent the proposed program:

95 (i) would expand the capacity to meet state or regional workforce needs related to deep
96 technology;

97 (ii) would integrate deep technology competency with disciplinary expertise;

98 (iii) identifies a faculty member or other individual who has expertise and a
99 demonstrated willingness to lead the proposed program;

100 (iv) would incorporate internships or significant project experiences, including
101 team-based experiences;

102 (v) identifies how industry professionals would participate in curriculum development
103 and teaching;

104 (vi) would create partnerships with other higher education institutions and industry;
105 and

106 (vii) would be cost effective; and

107 (c) other relevant criteria as determined by the advisory council and the board.

108 (5) Subject to Subsection (6) and the other provisions of this section, on or before
109 September 1 of each fiscal year, the board shall review the recommendations of the advisory
110 council and may provide funding for deep technology programs using the criteria described in
111 Subsection (4).

112 (6) Before the board may provide funding for one or more deep technology programs
113 for fiscal year 2021, on or before October 1, 2020, the board shall provide written information

114 regarding the proposed funding to, and shall consider the recommendations of, the Higher
115 Education Appropriations Subcommittee.

116 (7) (a) Each institution of higher education that receives funding under this section
117 shall, in a form approved by the board, annually provide written information to the board
118 regarding the activities, successes, and challenges related to administering the deep technology
119 program, including:

120 (i) specific entities that received funding under this section;

121 (ii) the amount of funding provided to each entity;

122 (iii) the number of participating students in each program;

123 (iv) the number of graduates of the program; and

124 (v) the number of graduates of the program employed in jobs requiring deep
125 technology skills.

126 (b) On or before November 1 of each year, the board shall provide a written report
127 containing the information described in this Subsection (7) to the:

128 (i) Education Interim Committee; and

129 (ii) Higher Education Appropriations Subcommittee.

130 Section 3. Section **53B-26-303** is enacted to read:

131 **53B-26-303. Deep Technology Talent Advisory Council.**

132 (1) There is created the Deep Technology Talent Advisory Council to make
133 recommendations to the board in the board's administration of the deep technology talent
134 initiative described in Section [53B-26-302](#).

135 (2) The advisory council shall consist of the following members:

136 (a) two members who have extensive experience in deep technology in the private
137 sector appointed by the president of the Senate;

138 (b) two members who have extensive experience in deep technology in the private
139 sector appointed by the speaker of the House of Representatives;

140 (c) a representative of the board appointed by the chair of the board;

141 (d) a representative of the Governor's Office of Economic Development appointed by

142 the executive director of the Governor's Office of Economic Development;

143 (e) one member of the Senate appointed by the president of the Senate;

144 (f) one member of the House of Representatives appointed by the speaker of the House
145 of Representatives; and

146 (g) other specialized industry experts who may be invited by a majority of the advisory
147 council to participate as needed as nonvoting members.

148 (3) The board shall provide staff support for the advisory council.

149 (4) (a) One of the advisory council members appointed under Subsection (2)(a) shall
150 serve an initial term of two years and one of the advisory council members appointed under
151 Subsection (2)(b) shall serve an initial term of two years.

152 (b) Except as described in Subsection (4)(a), all other advisory council members shall
153 serve an initial term of four years.

154 (c) Successor advisory council members upon appointment or reappointment shall each
155 serve a term of four years.

156 (d) When a vacancy occurs in the membership for any reason, the replacement shall be
157 appointed by the initial appointing authority for the unexpired term.

158 (e) An advisory council member may not serve more than two consecutive terms.

159 (7) A vote of a majority of the advisory council members is necessary to take action on
160 behalf of the advisory council.

161 (8) The duties of the advisory council include reviewing, prioritizing, and making
162 recommendations to the board regarding proposals for funding under the deep technology
163 talent initiative described in Section [53B-26-302](#).

164 (9) A member may not receive compensation or benefits for the member's service, but
165 a member who is not a legislator may receive per diem and travel expenses in accordance with:

166 (a) Sections [63A-3-106](#) and [63A-3-107](#); and

167 (b) rules made by the Division of Finance pursuant to Sections [63A-3-106](#) and
168 [63A-3-107](#).

169 Section 4. **Appropriation.**

170 The following sums of money are appropriated for the fiscal year beginning July 1,
171 2020, and ending June 30, 2021. These are additions to amounts previously appropriated for
172 fiscal year 2021. Under the terms and conditions of Title 63J, Chapter 1, Budgetary Procedures
173 Act, the Legislature appropriates the following sums of money from the funds or accounts
174 indicated for the use and support of the government of the state of Utah.

175 ITEM 1

176 To State Board of Regents -- Economic Development
177 From Workforce Development Restricted Account \$5,000,000

178 Schedule of Programs:

179 Deep Technology Talent Initiative \$5,000,000

180 The Legislature intends that appropriations under Item 1:

181 (1) be allocated to programs that meet the criteria described in Section [53B-26-302](#);

182 and

183 (2) under Section [63J-1-603](#), not lapse at the close of fiscal year 2021.