

MAR 09 2021

SENATE RESOLUTION

REQUESTING THE HAWAII TECHNOLOGY DEVELOPMENT CORPORATION AND
LEEWARD COMMUNITY COLLEGE TO STUDY THE FEASIBILITY OF
ESTABLISHING TECHNOLOGY ACADEMY PROGRAMS AT AIEA HIGH
SCHOOL AND PEARL CITY HIGH SCHOOL.

1 WHEREAS, the economic disruption caused by the coronavirus
2 disease 2019 pandemic has illustrated a need to diversify
3 Hawaii's economy beyond tourism; and
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5 WHEREAS, despite the federal government continuing to
6 provide billions of dollars to individual states for the purpose
7 of developing economic diversity, Hawaii has failed to lobby
8 sufficiently for such funds even with the current dire state of
9 the economy; and
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11 WHEREAS, significant progress has been made in the past
12 years through programs supported by federal and state
13 initiatives, administered by the Hawaii Technology Development
14 Corporation, however, more is required to move Hawaii's
15 technology industry to achieve local technology
16 commercialization; and
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18 WHEREAS, innovation in science and technology fields will
19 support the State's sustainable economic development goals to
20 include a viable and vibrant technology labor force; and
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22 WHEREAS, economic growth that benefits all Hawaii residents
23 depends on enhancing the State's human resources, and providing
24 students with the necessary knowledge, skills, and experience to
25 enter an industry they wish to be a part of is an integral part
26 of developing these human resources; and
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28 WHEREAS, over the last two decades, approaches to generate
29 higher participation and achievement by high school students in
30 the area of technology have emerged in Hawaii and throughout the
31 United States in the form of technical academies run at selected
32 high schools; and
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1 WHEREAS, the technical academies offer effective contextual
2 learning, learning in the context of practical applications, and
3 programs such as project EAST (environmental and spatial
4 technology) and the foster interest and respect for science and
5 technology (FIRST) robotics; and
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7 WHEREAS, the applied learning academy model mixes high-
8 quality instruction with practical, project-based contextual
9 learning experiences that generate enthusiasm among students and
10 show them the practical application of academic skills; and
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12 WHEREAS, to further ensure the success of Hawaii's students
13 in the area of technology and to decrease the State's dependence
14 on tourism, the State must continue to provide its students with
15 appropriate educational opportunities and organizational
16 environments in which innovative educational programs,
17 particularly in the fields of science, technology, and
18 engineering are offered to develop the necessary skills,
19 knowledge, and experience, as well as nurture the students'
20 growth; now, therefore,
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22 BE IT RESOLVED by the Senate of the Thirty-first
23 Legislature of the State of Hawaii, Regular Session of 2021,
24 that the Hawaii Technology Development Corporation and Leeward
25 Community College are requested to study the feasibility of
26 establishing technology academy programs at Aiea High School and
27 Pearl City High School to be administered by Leeward Community
28 College in partnership with the Department of Education; and
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30 BE IT FURTHER RESOLVED that the purpose of the technology
31 academy programs should be to:
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- 33 (1) Motivate and engage students in the fields of science,
34 technology, and engineering;
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- 36 (2) Provide the students with effective contextual
37 learning, learning in the context of practical
38 applications, and programs, with focus on the most in-
39 demand knowledge, skills, and experience in the fields
40 of science, technology, and engineering, that would
41 enable them to pursue post-secondary training and
42 career options in science, technology, and engineering



1 disciplines, including but not limited to knowledge,
2 skills, and experience in alternative energy; dual use
3 technology, which refers to technology that can be
4 used for both peaceful and military aims; artificial
5 intelligence; machine learning; data science and
6 analytics; data engineering; data visualization;
7 network and information security (cybersecurity);
8 cloud computing; extended reality including virtual
9 reality and augmented reality; internet of things;
10 user interface and user experience design; mobile
11 development; blockchain; quantum computing; and
12 various programming languages; and
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- 14 (3) Offer early college credits designed to be accepted at
15 colleges and universities in the United States,
16 including the University of Hawaii system; and
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18 BE IT FURTHER RESOLVED that the Hawaii Technology
19 Development Corporation and Leeward Community College, in
20 collaboration with the Department of Education, are requested to
21 submit a report of their findings and recommendations, including
22 any proposed legislation, to the Legislature no later than
23 twenty days prior to the convening of the Regular Session of
24 2022, including discussion of the following:
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- 26 (1) The technology academy programs' admissions process
27 and student qualifications;
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29 (2) The technology academy programs' programs and
30 curriculum;
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32 (3) The estimated costs and personnel necessary to
33 establish, implement, and maintain the technology
34 academy programs;
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36 (4) The structure by which the technology academy programs
37 could offer early college credits acceptable at
38 colleges and universities in the United States,
39 including the University of Hawaii system; and
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41 (5) Any other matters the Hawaii Technology Development
42 Corporation, Leeward Community College, and the



1 Department of Education deem appropriate for the
2 successful establishment, implementation, and
3 operation of the technology academy programs at Aiea
4 High School and Pearl City High School; and
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6 BE IT FURTHER RESOLVED that certified copies of this
7 Resolution be transmitted to the Director of Business, Economic
8 Development, and Tourism; Executive Director of the Hawaii
9 Technology Development Corporation; President of the University
10 of Hawaii System; Chancellor of Leeward Community College;
11 Chairperson of the Board of Education; and Superintendent of
12 Education.
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OFFERED BY:



