
SENATE RESOLUTION

REQUESTING THE UNIVERSITY OF HAWAII SYSTEM TO DEVELOP A
COMPREHENSIVE APPROACH TO THE TEACHING AND TRAINING OF
ENGINEERING AT UNIVERSITY CAMPUSES STATEWIDE.

1 WHEREAS, the State's economic development goal of
2 encouraging an innovation-based economy relies on workforce
3 proficiencies in science, technology, engineering, and
4 mathematics and requires that students have broad opportunities
5 to learn the advanced skills necessary to succeed in a more
6 complex society; and
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8 WHEREAS, currently the University of Hawaii System offers a
9 number of engineering programs statewide, ranging from applied
10 technical education programs at the Community Colleges to
11 Bachelor, Master, and Doctoral Degree programs at the University
12 level; and
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14 WHEREAS, further development of engineering programs is a
15 matter of statewide concern and would provide wide-ranging
16 academic and economic opportunities for the State; and
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18 WHEREAS, additional engineering programs would address
19 state needs for a skilled workforce with both experience and
20 training in high priority areas for science and technology
21 economic development in the State; and
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23 WHEREAS, it is essential for the future long-range
24 development of the State to develop, promote, and support
25 science, technology, engineering, and mathematics (STEM)
26 research, educational and training programs on Neighbor Islands
27 that seek to attract and develop new, potentially growth science
28 and technology-oriented industries; and
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30 WHEREAS, additional engineering curriculum offerings would
31 allow the University of Hawaii System to excel in applied and
32 basic science, technology, engineering, and mathematics research
33 fields that provide the hands-on experiences essential for its
34 graduates to be competitive in the global discovery and
35 innovation enterprise; now, therefore,

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2 BE IT RESOLVED by the Senate of the Twenty-fifth
3 Legislature of the State of Hawaii, Regular Session of 2009,
4 that the University of Hawaii System is requested to develop a
5 comprehensive approach to the teaching and training of
6 engineering at University campuses statewide; and
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8 BE IT FURTHER RESOLVED that the University of Hawaii System
9 is requested to consult with the Council of Chief Academic
10 Officers, University of Hawaii System Vice President for
11 Research, University of Hawaii System Vice President for
12 Academic Planning and Policy, University of Hawaii at Manoa Vice
13 Chancellor for Research, and University of Hawaii at Hilo Vice
14 Chancellor for Research; and
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16 BE IT FURTHER RESOLVED that in developing a comprehensive
17 approach to the teaching and training of engineering statewide,
18 the University of Hawaii System is requested to include, but not
19 be limited to the following considerations:
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- 21 (1) An assessment of engineering academic and workforce
22 needs in the State;
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- 24 (2) Ensuring the provision of adequate and accessible
25 engineering education and facilities that are designed
26 to meet the science and technology-oriented economic
27 development opportunities and needs of Neighbor Island
28 communities;
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- 30 (3) The cost of program implementation on a statewide,
31 campus-by-campus basis, including the current
32 budgetary environment, initial implementation, and a
33 review of continuing operational costs;
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- 35 (4) Potential articulation and transfer among campuses;
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- 37 (5) Academic considerations, such as accreditation and
38 faculty availability, and how the effort fits with
39 existing or planned programs at other campuses;
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- 41 (6) An evaluation of the current proposals by the
42 University of Hawaii at Hilo to establish an
43 applied-oriented undergraduate Bachelor of Science
44 degree engineering program that focuses on sustainable

1 energy, food security, robotics and data manipulation
2 while weaving throughout this program concepts of
3 indigenous engineering from Native Hawaiian and
4 broader Pacific Islander cultures, and Maui Community
5 College to establish an engineering technology
6 program; and
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8 (7) A proposed implementation schedule; and
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10 BE IT FURTHER RESOLVED that the University of Hawaii System
11 is requested to submit its findings and recommendations,
12 including any budgetary requests and proposed legislation, to
13 the Legislature no later than twenty days prior to the convening
14 of the Regular Session of 2010; and
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16 BE IT FURTHER RESOLVED that certified copies of this
17 Resolution be transmitted to the Chairperson of the Board of
18 Regents, President of the University of Hawaii System, Council
19 of Chief Academic Officers, University of Hawaii System Vice
20 President for Research, University of Hawaii System Vice
21 President for Academic Planning and Policy, University of Hawaii
22 at Manoa Vice Chancellor for Research, and University of Hawaii
23 at Hilo Vice Chancellor for Research.