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# SENATE CONCURRENT 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

1 fields that provide the hands-on experiences essential for its  
2 graduates to be competitive in the global discovery and  
3 innovation enterprise; now, therefore,  
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5 BE IT RESOLVED by the Senate of the Twenty-fifth  
6 Legislature of the State of Hawaii, Regular Session of 2009, the  
7 House of Representatives concurring, that the University of  
8 Hawaii System is requested to develop a comprehensive approach  
9 to the teaching and training of engineering at University  
10 campuses statewide; and  
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12 BE IT FURTHER RESOLVED that the University of Hawaii System  
13 is requested to consult with the Council of Chief Academic  
14 Officers, University of Hawaii System Vice President for  
15 Research, University of Hawaii System Vice President for  
16 Academic Planning and Policy, University of Hawaii at Manoa Vice  
17 Chancellor for Research, and University of Hawaii at Hilo Vice  
18 Chancellor for Research; and  
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20 BE IT FURTHER RESOLVED that in developing a comprehensive  
21 approach to the teaching and training of engineering statewide,  
22 the University of Hawaii System is requested to include, but not  
23 be limited to the following considerations:  
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- 25 (1) An assessment of engineering academic and workforce  
26 needs in the State;  
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- 28 (2) Ensuring the provision of adequate and accessible  
29 engineering education and facilities that are designed  
30 to meet the science and technology-oriented economic  
31 development opportunities and needs of Neighbor Island  
32 communities;  
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- 34 (3) The cost of program implementation on a statewide,  
35 campus-by-campus basis, including the current  
36 budgetary environment, initial implementation, and a  
37 review of continuing operational costs;  
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- 39 (4) Potential articulation and transfer among campuses;  
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- 41 (5) Academic considerations, such as accreditation and  
42 faculty availability, and how the effort fits with  
43 existing or planned programs at other campuses;  
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1           (6) An evaluation of the current proposals by the  
2           University of Hawaii at Hilo to establish an  
3           applied-oriented undergraduate Bachelor of Science  
4           degree engineering program that focuses on sustainable  
5           energy, food security, robotics and data manipulation  
6           while weaving throughout this program concepts of  
7           indigenous engineering from Native Hawaiian and  
8           broader Pacific Islander cultures, and Maui Community  
9           College to establish an engineering technology  
10          program; and

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12          (7) A proposed implementation schedule; and

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14          BE IT FURTHER RESOLVED that the University of Hawaii System  
15          is requested to submit its findings and recommendations,  
16          including any budgetary requests and proposed legislation, to  
17          the Legislature no later than twenty days prior to the convening  
18          of the Regular Session of 2010; and

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20          BE IT FURTHER RESOLVED that certified copies of this  
21          Concurrent Resolution be transmitted to the Chairperson of the  
22          Board of Regents, President of the University of Hawaii System,  
23          Council of Chief Academic Officers, University of Hawaii System  
24          Vice President for Research, University of Hawaii System Vice  
25          President for Academic Planning and Policy, University of Hawaii  
26          at Manoa Vice Chancellor for Research, and University of Hawaii  
27          at Hilo Vice Chancellor for Research.