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# A BILL FOR AN ACT

RELATED TO THE ECONOMY.

**BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:**

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PART I

2           SECTION 1. The legislature finds that economic growth to  
3 benefit all Hawaii residents will require enhancing the State's  
4 human resources; and with respect to job creation in high-paying  
5 industry sectors, it means that Hawaii must closely track key  
6 growth areas within the State's economy and align its residents'  
7 skill sets with the needs of businesses in these emerging  
8 industries.

9           For example, the department of business, and economic  
10 development, and tourism's "2010 Update Report on Hawaii's  
11 Targeted & Emerging Industries" identified the following areas  
12 as "high-performing" in comparison with national and local  
13 growth trends: scientific research and development (averaging  
14 5.2 per cent job growth between 2002-2010, or nearly 3.3 per  
15 cent higher than growth of the same industry group nationally),  
16 medical testing, aquaculture, performing and creative arts,  
17 specialty health care, business consulting, design services,  
18 technology manufacturing, and computer services. These



1 high-performing jobs in emerging sectors accounted for roughly  
2 69,600 jobs (nine per cent of all civilian jobs in 2010), but  
3 the sectors generated twenty per cent of the total gain in jobs  
4 for Hawaii's civilian economy, or about 15,000 new jobs between  
5 2002-2010. For about half of the high-performing sectors, the  
6 average annual earnings exceeded \$50,000 in 2010. While other  
7 emerging industry sectors may not have demonstrated the same  
8 degree of high-performance growth as the above areas, most of  
9 the emerging industries target clusters are growing at rates  
10 that are higher than other industry sectors within the State.

11 Since 2007, the legislature, department of business, and  
12 economic development, and tourism, University of Hawaii, and  
13 various educational stakeholders have undertaken a pilot  
14 demonstration project to evaluate the impact of experiential  
15 learning initiatives in science, technology, engineering, and  
16 math (STEM) fields and creative media, pursuant to  
17 appropriations in Acts 111 and 271, Session Laws of Hawaii 2007,  
18 and federal American Recovery and Reinvestment Act of 2009  
19 funding during 2009-2010. In 2010, House Concurrent Resolution  
20 No. 297, S.D. 1, C.D. 1, further requested a report on the  
21 economic value of expanded workforce development capacity and



1 STEM initiatives prior to the start of the 2011 legislative  
2 session.

3 Hence, the purpose of this part is to:

- 4 (1) Provide a permanent funding source for STEM  
5 experiential learning initiatives that have yielded  
6 strong student performance outcomes and expanded the  
7 reach of the program through teacher-driven efforts;
- 8 (2) Provide recommendations to maximize the benefits of  
9 STEM and creative media experiential learning  
10 initiatives (e.g., expanded participation throughout  
11 Hawaii's public and private schools, opportunities to  
12 leverage public-private resources in broadening the  
13 reach of innovative experiential learning programs  
14 throughout the State);
- 15 (3) Improve the quality of teaching in science,  
16 technology, engineering, and mathematics at Hawaii's  
17 public schools by providing professional development  
18 opportunities for practicing teachers, as well as  
19 attracting highly qualified individuals who hold  
20 degrees in these subject areas to the teaching  
21 profession; and



1 (4) Better align the State's workforce needs for economic  
2 growth in new industry clusters through annual  
3 reporting requirements for the State's emerging  
4 industries in conjunction with the allocation of  
5 necessary resources into experiential learning  
6 initiatives within the University of Hawaii,  
7 department of education, and other business  
8 development and education partners.

9 SECTION 2. There is appropriated out of the general  
10 revenues of the State of Hawaii the sum of \$ or so  
11 much thereof as may be necessary for fiscal year 2011-2012 and  
12 the same sum or so much thereof as may be necessary for fiscal  
13 year 2012-2013 for the Hawaii excellence through science and  
14 technology academy pilot program within Kauai community college.

15 The sums appropriated shall be expended by the Kauai  
16 community college for the purposes of this part.

17 SECTION 3. There is appropriated out of the general  
18 revenues of the State of Hawaii the sum of \$ or so  
19 much thereof as may be necessary for fiscal year 2011-2012 and  
20 the same sum or so much thereof as may be necessary for fiscal  
21 year 2012-2013 in collaboration with Kauai community college for



1 the Hawaii excellence through science and technology academy  
2 pilot program.

3 The sums appropriated shall be expended by the department  
4 of education for the purposes of this part.

5 SECTION 4. There is appropriated out of the general  
6 revenues of the State of Hawaii the sum of \$ or so  
7 much thereof as may be necessary for fiscal year 2011-2012 and  
8 the same sum or so much thereof as may be necessary for fiscal  
9 year 2012-2013 for the fostering inspiration and relevance  
10 through science and technology pre-academy program pursuant to  
11 section 304A-1861; the robotics and problem-based, applied  
12 learning program pursuant to section 304A-1862; and the research  
13 experiences for teachers program pursuant to section 304A-1863.

14 The sums appropriated shall be expended by the University  
15 of Hawaii for the purposes of this part.

16 SECTION 5. There is appropriated out of the general  
17 revenues of the State of Hawaii the sum of \$ or so  
18 much thereof as may be necessary for fiscal year 2011-2012 and  
19 the same sum or so much thereof as may be necessary for fiscal  
20 year 2012-2013 to support the business/education internship and  
21 mentorship program.



1           The sums appropriated shall be expended by the University  
2 of Hawaii for the purposes of this part.

3           SECTION 6. There is appropriated out of the general  
4 revenues of the State of Hawaii the sum of \$                    or so  
5 much thereof as may be necessary for fiscal year 2011-2012 and  
6 the same sum or so much thereof as may be necessary for fiscal  
7 year 2012-2013 for the development of professional development  
8 programs in the science, technology, engineering, and  
9 mathematics disciplines for practicing teachers.

10           The sums appropriated shall be expended by the University  
11 of Hawaii for the purposes of this part.

12           SECTION 7. There is appropriated out of the general  
13 revenues of the State of Hawaii the sum of \$                    or so  
14 much thereof as may be necessary for fiscal year 2011-2012 and  
15 the same sum or so much thereof as may be necessary for fiscal  
16 year 2012-2013 for the transition to teaching program to provide  
17 stipends to attract science, technology, engineering, and  
18 mathematics graduates to the University of Hawaii post  
19 baccalaureate certificate in secondary education program.

20           The sums appropriated shall be expended by the University  
21 of Hawaii for the purposes of this part.

PART II

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SECTION 8. There is appropriated out of the general revenues of the State of Hawaii the sum of \$ or so much thereof as may be necessary for fiscal year 2011-2012 and the same sum or so much thereof as may be necessary for fiscal year 2012-2013 to be deposited into the Hawaii 3Ts school technology laboratories fund established pursuant to section 302A-1314, Hawaii Revised Statutes.

SECTION 9. There is appropriated out of the Hawaii 3Ts school technology laboratories fund the sum of \$ or so much thereof as may be necessary for fiscal year 2011-2012 and the same sum or so much thereof as may be necessary for fiscal year 2012-2013 to maintain the project EAST program in existing schools and to expand the program to schools statewide; provided that no funds shall be expended unless matching funds are provided pursuant to section 302A-1314(p), Hawaii Revised Statutes.

The sums appropriated shall be expended by the Economic Development Alliance of Hawaii, Inc., in accordance with section 302A-1314, Hawaii Revised Statutes, and implemented in partnership with county economic development boards, as appropriate, for the purposes of this part.





**Report Title:**

Workforce Development; STEM Initiatives; Appropriations

**Description:**

Appropriates funds for various science, technology, engineering, and math (STEM) and project EAST programs. (HD1)

*The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.*

