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# A BILL FOR AN ACT

RELATING TO AEROSPACE DEVELOPMENT.

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

1           SECTION 1. The legislature finds that Hawaii's diverse  
2 natural resources, unique geographic terrain, first-class  
3 technological infrastructure, and resident scientific and  
4 engineering expertise make our island state an ideal location to  
5 develop, grow, and sustain a wide variety of aerospace-related  
6 activities. For nearly half a century, the State has supported  
7 our national space efforts, beginning with astronaut training  
8 programs in the late 1950s and the development of world-class  
9 observatories in the 1960s. Over the past three decades, the  
10 University of Hawaii, the United States military, and numerous  
11 companies statewide have also engaged in a variety of  
12 nationally-funded pioneering programs in planetary geosciences,  
13 satellite communications, remote sensing, environmental  
14 monitoring, and meteorology.

15           These activities were illustrated in a February 4, 2007,  
16 article in the *Honolulu Star-Bulletin* entitled "UH to launch  
17 satellites." The University of Hawaii small satellite program



1 began in November 2001, and students have built several  
 2 generations of small satellites called CubeSats, about the size  
 3 of a soda can. Their first satellite, plus thirteen from other  
 4 universities, was on a Russian rocket that crashed after liftoff  
 5 in July 2006. While this outcome was disappointing, students  
 6 remain focused on the goal of putting two satellites into orbit,  
 7 with the first launch in 2009 and the second in 2010.  
 8 Currently, nearly two dozen students are working on satellites  
 9 ranging from those that can fit in the palm of a hand to the  
 10 size of a microwave oven. About one hundred fifty students who  
 11 worked on small satellites have graduated from the University of  
 12 Hawaii, and most found jobs elsewhere. Building new initiatives  
 13 in Hawaii will bring some of these students home and allow them  
 14 to use their education in small-satellite technology in Hawaii.

15 The purpose of this Act is to position Hawaii to be  
 16 nationally and globally competitive and recognized in aerospace  
 17 development.

18 SECTION 2. Chapter 201, Hawaii Revised Statutes, is  
 19 amended as follows:

20 1. By amending the title of part V to read:

21 "[+]PART V.[+] OFFICE OF [~~SPACE-INDUSTRY~~] AEROSPACE  
 22 DEVELOPMENT"



1 2. By amending section 201-71 to read:

2 "[+]§201-71[+] **Definitions.** As used in this part:

3 "Director" means the director of the office of [~~space~~  
4 ~~industry.~~] aerospace development.

5 "Office" means the office of [~~space industry.~~] aerospace  
6 development."

7 3. By amending the title and subsection (a) of section  
8 201-72 to read:

9 "§201-72 **Office of [~~space industry;~~] aerospace**  
10 **development; establishment.** (a) There is established an office  
11 of [~~space industry~~] aerospace development in the department of  
12 business, economic development, and tourism."

13 4. By amending section 201-73 to read:

14 "[+]§201-73[+] **Powers and duties of director.** In addition  
15 to any other powers and duties provided in this part, the  
16 director shall:

- 17 (1) Oversee, supervise, and direct the planning,  
18 evaluation, and coordination of space-related  
19 activities and identify and promote opportunities for  
20 expanding and diversifying aerospace-related  
21 industries in the [~~State;~~] state, which may include a



- 1           Pacific international center for space exploration  
2           systems to support space exploration and settlement;
- 3           (2) Initiate discussions for private and international  
4           involvement in space-related activities in the  
5           [~~State;~~] state;
- 6           (3) Assist the University of Hawaii, local companies,  
7           research institutions, and other interested  
8           organizations in establishing partnerships with  
9           corporate, government, and university entities that  
10           can promote and enhance the state's aerospace  
11           industry;
- 12           (4) Leverage aerospace and related technological  
13           capabilities in the state's academic, public, and  
14           private sectors to enhance the State's ability to  
15           procure both federal and private research and  
16           development grants and to increase the state's  
17           competitiveness in national and global aerospace  
18           markets;
- 19           (5) Promote innovative education and workforce development  
20           programs that will enhance public awareness of the  
21           state's aerospace potential and enable residents to  
22           pursue employment in Hawaii's aerospace industry;



- 1        (6) Monitor national and global trends in the aerospace  
2        industry and recommend programs and policies that can  
3        support aerospace industry development statewide;
- 4        [~~+3~~] (7) Review the effectiveness of present publications,  
5        pamphlets, and other sources of information about  
6        Hawaii's space-related activities produced and  
7        distributed by the State;
- 8        [~~+4~~ ~~Have the office serve~~] (8) Serve as a clearinghouse  
9        for information on Hawaii's space-related  
10       activities[~~7~~] to include but not be limited to[~~7~~]  
11       those of the University of Hawaii and federal agencies  
12       located in Hawaii;
- 13       [~~+5~~ ~~Develop a business plan for a commercial space~~  
14       ~~facility and for pursuing appropriate business~~  
15       ~~partners;~~
- 16       ~~+6~~] (9) Target existing businesses [which] that can  
17       provide products or services of importance to the  
18       space industry to support the expansion of [~~such~~]  
19       these businesses in Hawaii;
- 20       [~~+7~~] (10) Increase contact and maintain liaison with the  
21       National Aeronautics and Space Administration and  
22       other federal agencies and facilities;



1        ~~[(8)]~~ (11) Institute procedures by which citizen input on  
2                    proposed space facilities development shall be invited  
3                    at the earliest possible time in the development  
4                    process;

5        ~~[(9)]~~ ~~Develop, in consultation with the office of Hawaiian~~  
6                    ~~affairs and other Hawaiian organizations, appropriate~~  
7                    ~~mechanisms for the consideration and protection of~~  
8                    ~~Hawaiian cultural values and resources, religious~~  
9                    ~~rights, and traditional and customary uses which may~~  
10                   ~~be affected by space-related activities;~~

11        ~~+(10)]~~ (12) Adopt, amend, and repeal rules pursuant to  
12                    chapter 91 necessary to carry out this part;

13        ~~+(11)]~~ (13) Contract for ~~[such]~~ services as may be necessary  
14                    for the purposes of this part; and

15        ~~+(12)]~~ (14) Do all other things necessary or proper to carry  
16                    out the purposes of this part."

17                    5. By repealing section 201-74.

18                    ~~"[§201-74] Communities near space facilities; residents.~~

19        ~~The director shall take steps to ensure that residents of~~  
20        ~~communities surrounding space facilities are provided education~~  
21        ~~and training pertaining to jobs created by space-related~~  
22        ~~activities. The director shall ensure that space industry~~

1 ~~companies in the State are committed to hiring community~~  
2 ~~residents for jobs for which they hold appropriate~~  
3 ~~qualifications and providing goods and services for the~~  
4 ~~enhancement of community life."]~~

5 SECTION 3. There is appropriated out of the general  
6 revenues of the State of Hawaii the following sums, or so much  
7 thereof as may be necessary for fiscal year 2007-2008, and the  
8 same sum or so much thereof as may be necessary for fiscal year  
9 2008-2009, for the office of aerospace development to carry out  
10 its duties to identify and promote opportunities for expanding  
11 and diversifying aerospace-related industries in the state as  
12 follows:

- 13 1. Fiscal year 2007-2008:
- 14 Operations of the office of aerospace
- 15 development \$
- 16 Establishment and operations of the
- 17 Pacific international center for space
- 18 exploration systems, if the center is
- 19 established under section 201-73(1),
- 20 Hawaii Revised Statutes \$



1           2.    Fiscal year 2008-2009:  
2                    Operations of the office of aerospace  
3                    development    \$  
4                    Establishment and operations of the  
5                    Pacific international center for space  
6                    exploration systems, if the center is  
7                    established under Section 201-73(1),  
8                    Hawaii Revised Statutes    \$

9           The sums appropriated shall be expended by the department  
10 of business, economic development, and tourism for the purposes  
11 of this Act.

12           SECTION 4. There is appropriated out of the general  
13 revenues of the State of Hawaii the sum of \$                    or so much  
14 thereof as may be necessary for fiscal year 2007-2008 to  
15 support the development of studies that would provide a detailed  
16 environmental and safety analysis to certify that spaceplanes  
17 can be launched safely from Hawaii. This analysis may be  
18 required to obtain a commercial spaceport license from the  
19 federal aviation administration.

20           The sum appropriated shall be expended by the department of  
21 business, economic development, and tourism for the purposes of  
22 this Act.





1 SECTION 5. Statutory material to be repealed is bracketed  
2 and stricken. New statutory material is underscored.

3 SECTION 6. This Act shall take effect on July 1, 2034.



**Report Title:**

Office of Aerospace Development

**Description:**

Renames the Office of Space Industry, the Office of Aerospace Development, and adds additional duties relating to identifying and promoting opportunities for expanding and diversifying aerospace-related industries in the state. Appropriates funds for the Office of Aerospace Development, to establish and operate a Pacific International Center for Space Explorations, and for safety and environmental studies for an FAA commercial space port license. (SB907 HD2)

