
SENATE RESOLUTION

RECOGNIZING AEROSPACE AS A STRATEGIC AND TIMELY GROWTH INDUSTRY FOR HAWAII AND REQUESTING THE STATE ADMINISTRATION TO TAKE PROACTIVE, COORDINATED, AND SUSTAINED ACTION TO FULLY REALIZE THE SIGNIFICANT SCIENTIFIC, EDUCATIONAL, AND COMMERCIAL BENEFITS THE AEROSPACE INDUSTRY CAN BRING TO THE STATE.

1 WHEREAS, over the past half century, aerospace has played a
2 pivotal role in expanding and diversifying the national economy
3 by forging new inroads to scientific discovery, advancing
4 national engineering and manufacturing expertise, pioneering
5 innovations in communications and computer technologies,
6 enhancing surveillance of the Earth, and enabling better
7 understanding of weather systems and climate change; and
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9 WHEREAS, aerospace has also spurred spinoffs of commercial
10 products that have significantly enhanced the public's quality
11 of life, provided rich educational and training opportunities
12 for kindergarten through twelfth grade students and college
13 students nationwide, and expanded means and venues for the
14 exploration and development of space; and
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16 WHEREAS, the aerospace industry today holds equal if not
17 greater potential for enabling future innovation in science and
18 technology, enhancing aviation and global security, promoting
19 science, technology, engineering and mathematics (STEM)
20 education to help grow a technologically proficient workforce,
21 improving healthcare diagnostics and delivery worldwide, forging
22 renewable energy systems for application worldwide, and
23 advancing remote sensing and management of critical global
24 resources; and
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26 WHEREAS, Hawaii's strategic mid-Pacific near-equatorial
27 location; substantial telemetry, space surveillance, and other
28 related infrastructure; moon- and Mars-like terrain; resident
29 expertise in a broad range of aerospace-related technologies;
30 and long-standing ties with space-faring nations throughout the
31 Asia-Pacific region, comprise strategic assets and capabilities
32 that can be leveraged to help realize humankind's full potential



1 in space, and in so doing engage the State as a major
2 contributor to and beneficiary of global space enterprise; and
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4 WHEREAS, Hawaii has historically played a seminal role in
5 developing the nation's space program, beginning with astronaut
6 training for the Apollo lunar missions and the development of
7 world-class observatories on the island of Hawaii, and leading
8 to a variety of nationally funded programs in planetary
9 geosciences, satellite communications, space-based remote
10 sensing and environmental monitoring, deep-space surveillance,
11 and other aerospace-related activities sponsored by the
12 University of Hawaii, the United States military, and numerous
13 aerospace-related companies statewide; and
14

15 WHEREAS, today Hawaii continues to support national space
16 efforts through a wide range of aerospace-related activities on
17 all major islands, including the Mauna Kea Science Reserve on
18 Mauna Kea as the world's premier astronomical observing site,
19 the Air Force Maui Optical and Supercomputing Observatory
20 supporting the nation's most sophisticated deep space
21 surveillance complex, the University of Hawaii's Institute for
22 Astronomy and Hawaii Institute for Geophysics and Planetology on
23 Oahu, pioneering basic and applied research in diverse space-
24 related fields, and the Pacific Missile Range Facility on Kauai,
25 providing the world's largest multi-environment test and
26 evaluation range for aerospace technologies; and
27

28 WHEREAS, local aerospace companies, founded and grown in
29 Hawaii, are equipped with the technical talent and state-of-the-
30 art infrastructure to develop next-generation electro-optic
31 technologies, space surveillance and defense systems, command
32 and control networks, and other resources and capabilities that
33 can be adapted for military and civilian aerospace applications;
34 and
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36 WHEREAS, major national aerospace corporations, already
37 established in Hawaii, have expressed interest in expanding
38 their operations in the islands as a bridge to Asia-Pacific
39 markets, especially in the development and delivery of advanced
40 systems for aviation maintenance and training, air traffic
41 control, satellite communications, and deep space tracking,
42 surveillance, and reconnaissance; and



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2 WHEREAS, the Federal Aviation Administration, the National
3 Aeronautics and Space Administration, and other federal agencies
4 and aerospace corporations nationwide are working to develop
5 next-generation aviation technologies to enhance the safety and
6 efficiency of future air travel; and
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8 WHEREAS, Hawaii's abundant open air space, trans-Pacific
9 and inter-island air routes, and extensive civilian and military
10 aviation infrastructure make Hawaii an ideal test site to
11 demonstrate and validate next-generation aviation technologies;
12 and
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14 WHEREAS, Hawaii's unique location, geography, and
15 technological assets are also ideally suited to support the
16 launch of next-generation commercial spacecraft, including
17 spaceplanes, to carry small satellites, experimental payloads,
18 and tourists to space; monitor and manage human-caused and
19 natural disasters; and develop and test space-based power
20 systems to capture sunlight as a renewable energy resource for
21 interplanetary spacecraft and Earth-based applications; and
22

23 WHEREAS, there is growing global concurrence that
24 multinational collaboration can help reduce the costs and
25 enhance the benefits of robotic and human missions to space and
26 that Hawaii, by virtue of its strategic location and assets, is
27 ideally situated to help lead the charge as a catalyst for
28 multinational space partnerships; and
29

30 WHEREAS, in order to realize this vision, considerable
31 resources will need to be devoted to the development, testing,
32 and evaluation of new technologies to enable long-term missions
33 to space; the training of scientists, engineers, and astronauts
34 to help design and implement these missions; the development of
35 multinational partnerships that can synergize resources and
36 reduce costs for future space missions; and educating and
37 engaging the general public in these efforts; and
38

39 WHEREAS, Hawaii's unique location, geography, international
40 connectivity, and other strategic assets and capabilities are
41 ideally suited to address all of these challenges; and
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1 WHEREAS, to diversify and expand Hawaii's economy, the
2 State must promote strategic growth industries that can attract
3 substantial federal and private sector investments, support
4 high-paying and sustainable technology-based employment
5 opportunities for local residents, develop creative means to
6 inspire and train students in STEM-related fields, and enable
7 pioneering research and commercial development programs at
8 universities and businesses statewide; and

9
10 WHEREAS, aerospace is demonstrably a dynamic growth
11 industry that has advanced and can continue to support all of
12 these goals to diversify and expand Hawaii's economy; and

13
14 WHEREAS, aerospace thrives in Hawaii because of the State's
15 unique location and intrinsic resources, and therefore is a
16 growth industry that will not be exported from the State as it
17 matures; and

18
19 WHEREAS, Hawaii already has established extensive working
20 relationships throughout the global aerospace community that can
21 be leveraged to grow an aerospace industry statewide; and

22
23 WHEREAS, all of the aforementioned assets, capabilities,
24 and advantages that predispose aerospace as a dynamic growth
25 industry for Hawaii imply that modest upfront investments in
26 this sector will bring substantial and sustainable scientific,
27 educational, and commercial returns to the State; now,
28 therefore,

29
30 BE IT RESOLVED by the Senate of the Twenty-eighth
31 Legislature of the State of Hawaii, Regular Session of 2016,
32 that this body recognizes aerospace as a strategic and timely
33 growth industry for Hawaii; and

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35 BE IT FURTHER RESOLVED that the state Administration is
36 requested to take proactive, coordinated, and sustained action
37 to fully realize the significant scientific, educational, and
38 commercial benefits the aerospace industry can bring to the
39 State; and



1 BE IT FURTHER RESOLVED that in support of this effort, the
2 State should make aerospace a high priority for innovation and
3 development in the 2017-2019 fiscal biennium; and
4

5 BE IT FURTHER RESOLVED that the Office of Aerospace
6 Development, as established under section 201-72, Hawaii Revised
7 Statutes, within the Department of Business, Economic
8 Development, and Tourism, should promote and help advance such
9 activities and programs on behalf of the State, to include
10 coordination with the Pacific Missile Range Facility on Kauai,
11 the Hawaii Space Flight Laboratory on Oahu, the Advanced Maui
12 Optical and Space Surveillance facility on Maui, the Pacific
13 International Space Center for Exploration Systems on the island
14 of Hawaii, the National Aeronautics and Space Administration,
15 the Federal Aviation Administration, and other state-based,
16 national, and public and private international agencies and
17 organizations, as appropriate; and
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19 BE IT FURTHER RESOLVED that in furtherance of this goal,
20 the Office of Aerospace Development is requested to prepare, for
21 review and consideration by the state Administration and the
22 Legislature, a strategic plan for aerospace development in
23 Hawaii that will explore possibilities and options for expanding
24 and diversifying the aerospace sector statewide, identifying
25 specific goals and plausible outcomes over a five-year period,
26 with recommendations for specific methodologies and policies to
27 help achieve these goals and outcomes; and
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29 BE IT FURTHER RESOLVED that this strategic plan be
30 completed in advance of the 2017-2019 fiscal biennium, with
31 copies delivered to the state Administration and Legislature for
32 consideration no later than September 1, 2016; and
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34 BE IT FURTHER RESOLVED that certified copies of this
35 Resolution be transmitted to the Governor; President of the
36 Senate; Speaker of the House of Representatives; Director of
37 Business, Economic Development, and Tourism; Director of the
38 Office of Aerospace Development; President of the University of
39 Hawaii System; Superintendent of Education; Adjutant General;
40 Commander of the United States Pacific Command; Commander of the
41 United States Pacific Fleet; Commander of the Pacific Air



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~~CONFIDENTIAL~~

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