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## HOUSE RESOLUTION

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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 both expanding and diversifying the national  
3 economy by forging new inroads to scientific discovery,  
4 advancing national engineering and manufacturing expertise,  
5 pioneering innovations in communications and computer  
6 technologies, enhancing surveillance of our home planet, and  
7 enabling better understanding of both weather systems and  
8 climate change; and  
9

10 WHEREAS, aerospace has also spurred spinoffs of commercial  
11 products that have significantly enhanced quality of life,  
12 provided rich educational and training opportunities for K-12  
13 and college students nationwide, and expanded means and venues  
14 for the exploration and development of space; and  
15

16 WHEREAS, today, the aerospace industry holds equal if not  
17 greater potential than it ever has for enabling future  
18 innovation in science and technology, enhancing aviation and  
19 global security, promoting STEM education to help grow a  
20 technologically proficient workforce, improving healthcare  
21 diagnostics and delivery worldwide, forging renewable energy  
22 systems for application worldwide, and advancing remote sensing  
23 and management of critical global resources; and  
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25 WHEREAS, Hawaii's strategic mid-Pacific, near-equatorial  
26 location, substantial telemetry, space surveillance, and other  
27 related infrastructure, Moon- and Mars-like terrain, resident  
28 expertise in a broad range of aerospace-related technologies,



1 and long-standing ties with space-faring nations throughout the  
2 Asia-Pacific region, comprise strategic assets and capabilities  
3 that can be leveraged to help realize humankind's full potential  
4 in space, and in so doing engage the State as a major  
5 contributor to and beneficiary of global space enterprise; and  
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7 WHEREAS, historically, Hawaii has played a seminal role in  
8 developing the nation's space program, beginning with astronaut  
9 training for the Apollo lunar missions and the development of  
10 world-class observatories on the Big Island and leading to a  
11 variety of nationally-funded programs in planetary geosciences,  
12 satellite communications, space-based remote sensing and  
13 environmental monitoring, deep space surveillance, and other  
14 aerospace-related activities sponsored by the University of  
15 Hawaii, the U.S. military, and numerous aerospace-related  
16 companies statewide; and  
17

18 WHEREAS, today, Hawaii continues to support national space  
19 efforts through a wide range of aerospace-related activities on  
20 all major islands including the Mauna Kea Science Reserve on  
21 Hawaii Island, which is the world's premier astronomical  
22 observing site; the Air Force Maui Optical and Supercomputing  
23 Observatory, which supports the nation's most sophisticated deep  
24 space surveillance complex; the University of Hawaii's Institute  
25 for Astronomy and Hawaii Institute for Geophysics and  
26 Planetology on Oahu, which have pioneered both basic and applied  
27 research in diverse space-related fields; and the Pacific  
28 Missile Range Facility on Kauai, which provides the world's  
29 largest multi-environment test and evaluation range for  
30 aerospace technologies; and  
31

32 WHEREAS, local aerospace companies, founded and grown in  
33 Hawaii, are equipped with both the technical talent and state  
34 of-the-art infrastructure to develop next-generation electro  
35 optic technologies, space surveillance and defense systems,  
36 command and control networks, and other resources and  
37 capabilities that can be adapted for both military and civilian  
38 aerospace applications; and  
39

40 WHEREAS, major national aerospace corporations already  
41 established in Hawaii are looking to expand their operation in



1 the islands as a bridge to Asia-Pacific markets, especially in  
2 the development and delivery of advanced systems for aviation  
3 maintenance and training, air traffic control, satellite  
4 communications, and deep space tracking, surveillance, and  
5 reconnaissance; and  
6

7 WHEREAS, the Federal Aviation Administration, the National  
8 Aeronautics and Space Administration, and other federal agencies  
9 and aerospace corporations nationwide are working to develop  
10 next-generation aviation technologies to enhance the safety and  
11 efficiency of future air travel; and  
12

13 WHEREAS, Hawaii's abundant open air space, trans-Pacific  
14 and inter-island air routes, and extensive civilian and military  
15 aviation infrastructure make it an ideal test site to  
16 demonstrate and validate next-generation technologies; and  
17

18 WHEREAS, Hawaii's unique location, geography, and  
19 technological assets are also ideally suited to support the  
20 launch of next-generation commercial spacecraft including  
21 spaceplanes to carry small satellites, experimental payloads,  
22 and tourists to space, to monitor and manage man-made and  
23 natural disasters, and to develop and test space-based power  
24 systems to capture sunlight as a renewable energy resource for  
25 both interplanetary spacecraft and Earth-based applications; and  
26

27 WHEREAS, there is a growing global concurrence that  
28 multinational collaboration can help reduce the costs and  
29 enhance the benefits of both human and robotic missions to space  
30 and that Hawaii, by virtue of its strategic location and assets,  
31 is ideally situated to help lead as a catalyst for multinational  
32 space partnerships; and  
33

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



1 enthusiasm to educate and engage the general public in these  
2 efforts; and  
3

4 WHEREAS, Hawaii's favorable location, geography,  
5 international connectivity, and other strategic assets and  
6 capabilities are ideally suited to address all of these  
7 challenges; and  
8

9 WHEREAS, the State must promote strategic growth industries  
10 that can attract substantial federal and private sector  
11 investments, support high-paying and sustainable technology-  
12 based employment opportunities for local residents, develop  
13 creative means to inspire and train students in STEM-related  
14 fields, and enable pioneering research and commercial  
15 development programs at universities and businesses statewide to  
16 diversify and expand Hawaii's economy; and  
17

18 WHEREAS, aerospace is demonstrably a dynamic growth  
19 industry that has advanced and can continue to support all of  
20 these goals in Hawaii; and  
21

22 WHEREAS, aerospace thrives in Hawaii because of the State's  
23 favorable location and intrinsic resources, and therefore is a  
24 growth industry that will not be exported from the State as it  
25 matures; and  
26

27 WHEREAS, Hawaii has already established extensive working  
28 relationships throughout the global aerospace community that can  
29 be leveraged to grow an aerospace industry statewide; and  
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31 WHEREAS, all of the assets, capabilities, and advantages  
32 that predispose aerospace as a dynamic growth industry for  
33 Hawaii show that modest upfront investments in this sector will  
34 bring substantial and sustainable scientific, educational and  
35 commercial returns to the State; now, therefore,  
36

37 BE IT RESOLVED by the House of Representatives of the  
38 Twenty-eighth Legislature of the State of Hawaii, Regular  
39 Session of 2016 that the Legislature recognizes aerospace as a  
40 strategic and timely growth industry for Hawaii; and



1 BE IT FURTHER RESOLVED that the State administration is  
2 requested to take proactive, coordinated, and sustained action  
3 to fully realize the significant scientific, educational, and  
4 commercial benefits the aerospace industry can bring to the  
5 State; and

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

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11 BE IT FURTHER RESOLVED that the Office of Aerospace  
12 Development, as established under section 201-71, Hawaii Revised  
13 Statutes within the Department of Business, Economic Development  
14 and Tourism, should promote and help advance such activities and  
15 programs on behalf of the State, to include coordination with  
16 the Pacific Missile Range Facility on Kauai, the Hawaii Space  
17 Flight Laboratory on Oahu, the Advanced Maui Optical and Space  
18 Surveillance facility on Maui, the Pacific International Space  
19 Center for Exploration Systems on Hawaii Island, the National  
20 Aeronautics and Space Administration, the Federal Aviation  
21 Administration, and other state-based, national, and  
22 international agencies and organizations, both public and  
23 private, as appropriate; and

24  
25 BE IT FURTHER RESOLVED that in furtherance of this goal,  
26 the Office of Aerospace Development is requested to prepare for  
27 review and consideration by the State administration and  
28 Legislature, a strategic plan for aerospace development in  
29 Hawaii that will explore possibilities and options for expanding  
30 and diversifying this sector statewide, identify specific goals  
31 and plausible outcomes over a five-year period, and recommend  
32 specific methodologies and policies to help achieve these goals  
33 and outcomes; and

34  
35 BE IT FURTHER RESOLVED that this strategic plan be  
36 completed in advance of the 2017-2019 fiscal biennium, with  
37 copies delivered to the State administration and Legislature for  
38 consideration by no later than Thursday, September 1, 2016; and

39  
40 BE IT FURTHER RESOLVED that certified copies of this  
41 Resolution be transmitted to the Governor, the Director of



1 Business, Economic Development, and Tourism, the President of  
 2 the University of Hawaii, the Superintendent of Education, the  
 3 Adjutant General, the Commander of the United States Pacific  
 4 Command, the Commander of the United States Pacific Fleet, the  
 5 Commander of the Pacific Air Forces, the Commanding General of  
 6 the United States Army Pacific, and the Commander of the United  
 7 States Marine Corps Forces, Pacific.

OFFERED BY:

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