

Support Maryland Aerospace & Technology Commission

Background: Maryland is an Aerospace State

- Highest concentration of Aerospace Engineers nationwide (more than California, Florida, Texas): **140,000+ jobs** across Maryland, mostly high-paying, contributing **over \$1B to the state tax base**
- **9,600 aerospace-related businesses** in Maryland, to include **15 of the top 20** aerospace companies nationwide (*see reverse side*)
- Home to National Investments and Critical Assets
 - Climate Change: NASA Goddard and NOAA make up the largest collection of Earth Science Experts in the world
 - Understanding the Universe: Space Telescope Science Institute, JHU Applied Physics Lab, and NASA Goddard make Maryland a hub for astrophysics & planetary science
 - Advanced Air Mobility Leader: NAVAIR Pax River, UMD UAS Research & Ops Center, Army Research Lab are pushing the next generation of air traffic management and drone usage

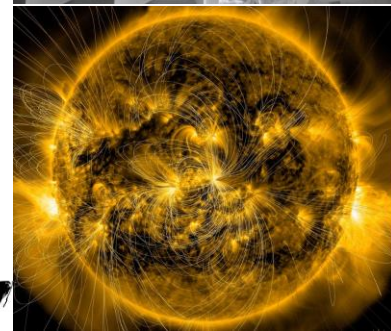
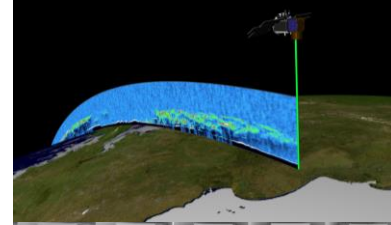
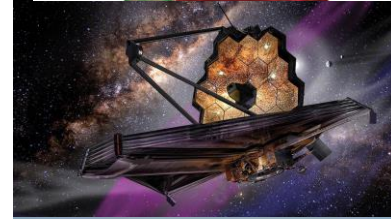
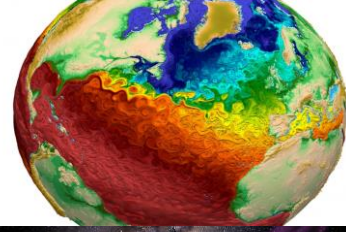
Problem: Maryland Aerospace Is At Risk

- Losing STEM graduates to other states
 - While we're investing in "Blueprint for Education", we **lose over 60% of UMD students** upon graduation
 - Cutting-edge aerospace jobs improve in-state retention
- Losing Aerospace revenue to other states
 - Florida, Texas, and Virginia have state-run ventures for aerospace economic development and attract companies

Solution: Maryland Aerospace & Technology Commission

- Incentivizes commercial aerospace big and small, promotes innovation, strengthens Maryland's aerospace leadership
- Independent Entity like TEDCO/MEDCO
- Full-time Executive Director with administrative authority
- Volunteer Board representing statewide stakeholders
- Maryland Aerospace & Technology Zone for targeted promotion
- Fund for Aerospace grants to build & attract leading companies
- Established this year (*unfunded*) with ability to fund in the future

SB 516 Sponsor: Senator Alonzo Washington
HB 685 Co-sponsors: Kevin Harris, Mark Chang
Contact: Georgie Brophy, mdaeroalliance@gmail.com





MARYLAND

AEROSPACE KEY FACTS AND FIGURES



MAJOR INDUSTRY EMPLOYERS

- › a.i. solutions
- › BAE Systems
- › The Boeing Company
- › GE Aviation
- › Global Science & Technology Inc.
- › Hughes Network Systems
- › Lockheed Martin Corporation
- › Northrop Grumman Corporation
- › Rockwell Collins
- › Science & Technology Corporation
- › SigmaSpace
- › Sierra Nevada Corporation
- › Textron
- › UAV Solutions



MAJOR MILITARY INSTALLATIONS

- › Joint Base Andrews
- › Naval Air Station Patuxent River
- › Fort Meade
- › Fort Detrick



RESEARCH FACILITIES

- › Arnold Engineering Development Center Hypervelocity Wind Tunnel 9
- › Johns Hopkins University Applied Physics Laboratory
- › US Army Research Laboratory - Aberdeen Proving Ground
- › US Army Research Laboratory - Adelphi Laboratory Center
- › US Naval Surface Warfare Center - Carderock
- › US Naval Surface Warfare Center - Indian Head

#1

in the nation for highest concentration of aerospace engineers

\$17.7 billion



Maryland ranks first in the nation in total federal obligations for research and development

142,280



Employees in the state's aerospace and defense sector, with wages totaling **\$16.21 billion**

9,600



Industry-related businesses generate \$37.8 billion in economic activity (home to 15 of the top 20 aerospace and defense companies)



HEADQUARTERS

- › Lockheed Martin Corporation's corporate headquarters is located in Bethesda
- › The National Oceanic and Atmospheric Administration is headquartered in Silver Spring
- › The Naval Air Station Patuxent River serves as the headquarters for the Naval Air Systems Command and the F-35C stealth fighter
- › NASA Goddard Space Flight Center, located in Greenbelt, is the largest earth and space science research organization in the world



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*Aerospace Engineering Programs

REFERENCES

<https://open.maryland.gov/open4business/aerospace-defense/>

* ABET accredited school and/or AIAA Student Branch



The American Institute of Aeronautics and Astronautics (AIAA) comprises nearly 30,000 members that span over 100 countries. They are engineers, researchers, scientists, entrepreneurs, educators, and students. They drive economic growth, discoveries, and innovations that help the aerospace community accomplish what was once thought impossible.

AIAA delivers extensive technical expertise and policy guidance to decision makers at the federal and state levels, serving as a reliable resource on a full spectrum of aerospace issues.

AIAA CAN HELP PROVIDE:

- › One-on-one meetings between technical experts and lawmakers to offer background on key aerospace issues
- › Informational seminars on key issues for groups
- › Expert testimony before lawmakers
- › White papers on specific aerospace topics

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