



# AEROSPACE

## ALABAMA AEROSPACE INDUSTRY ASSOCIATION (AAIA)

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### MISSION

The Alabama Aerospace Industry Association's mission is to make Alabama the next nationally and internationally recognized "Aerospace State" by identifying and capitalizing on the State's sustainable competitive advantages, thus promoting the growth of the aerospace industry in Alabama

### PROGRAMS AND SERVICES

- Focuses the Association's efforts to leverage already substantial industry, government and academic resources in the State to support economic growth and high-tech job creation
- Improves networking, communication, coordination and collaboration among aerospace/aviation and defense industries in Alabama
- Conducts activities and programs for members to share information and become better informed on manufacturing, management and government issues that significantly impact the industry
- Sponsors seminars, workshops and plant tours and disseminates information on advances in technology and continuous improvement.

### MEMBERSHIP

AAIA membership is limited to:

- Companies with an Alabama address that are directly involved in the aerospace industry in Alabama
- Companies engaged in the manufacture of aerospace/aviation/defense hardware
- Companies engaged in aviation repair, maintenance and overhaul (RMO)
- Suppliers of parts to the industry
- Companies and organizations providing services and support to the industry.

## ALABAMA AEROSPACE TEACHERS' ASSOCIATION (AATA)

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## **OVERVIEW**

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The Alabama Aerospace Teachers' Association (AATA) is a non-profit education organization established by Alabama teachers to promote aerospace education in the classroom. AATA serves K-12 classroom teachers throughout Alabama and is headquartered at the Aerospace Development Center. AATA's primary goal is to develop quality educational programs and services for teachers.

## **PROGRAMS AND SERVICES**

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- Establishes aerospace curricula
- Conducts educator workshops
- Provides aerospace materials for school libraries
- Sponsors student programs
- Publishes resource directories
- Maintains an aerospace speakers' bureau

AATA is incorporated as a 501(c)(3) non-profit organization. AATA is a membership organization governed by elected officers and a Board of Directors. AATA's three annually elected officers consist of a president, vice president, and secretary/treasurer. There are 11 district directors on the board from each of the AATA districts throughout the state and 10 at large directors. The board employs an executive director to manage the day-to-day operation of AATA.

## **AVIATION COUNCIL OF ALABAMA**

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## **OVERVIEW**

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The Aviation Council of Alabama is the state's only Airport and Aviation Association that serves to protect the interest of airports, business and individuals that make-up the "grass roots" of the aviation community. It represents international, air carrier, general aviation Airports and Aviation Businesses, Economic Developers, Pilots, Aircraft Owners and Aviation Associations. The Council is an organization whose efforts support and promote airports and the state's aviation community and businesses with a strong, united voice on issues that directly affect the present and future welfare of aviation in Alabama. The Aviation Council of Alabama is dedicated to continued improvement, development and advancements of airports and aviation throughout the state.

## **PROGRAMS AND SERVICES**

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- **Inform and Educate:** By maintaining close communications with its membership, the Council will represent the views of the membership before all relevant public bodies at the local, state and federal levels of government within the state. The Council will inform and educate administrative and elected public officials, as well as the public-at-large, about the importance of aviation, airports and the impact that legislation and public policy has on the aviation community.

- Promote and Protect Airport and Aviation Interests: The Council will actively promote and protect the interests of the aviation community. This task will be accomplished by maintaining a working relationship with governmental agencies such as local airport authorities, the Aeronautics Bureau of the ALDOT and the Federal Aviation Administration on matters that directly affect the aviation community. The Council's philosophy is that state and local chambers of commerce, industrial development boards, manufacturers and other economic development groups are natural allies of the aviation community and that we must work together to promote aviation, tourism, manufacturing and economic development. The ACA will form partnerships with these associations to further promote and support the importance of airports.
- Provide an Aviation Network: Membership in the Aviation Council of Alabama provides an opportunity to be part of a network of aviation-minded individuals, businesses and groups. Associations have been formed with the AOPA- Airport Support Network, Airport Watch, NBAA and local Chapters of EAA. Additionally ACA provides a networking organization for all airports in the state. This interface provides a forum to address common issues, questions and concerns.

## NATIONAL AEROSPACE DEVELOPMENT CENTER (NADC)

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### MISSION

The mission of the National Aerospace Development Center (NADC) is to harness the nation's educational, economic, cultural, and policy-making resources to create a new era of opportunity in aerospace for the direct benefit of the nation, its workers, entrepreneurs, and young people.

### OVERVIEW

NADC is a unique national nonprofit center that is independent and nonpartisan and promotes future economic growth potentials derived from space and enabled through a true aerospace approach to space access. The Center supports the development of space through an entrepreneurially-driven approach with appropriate government support via research and development and infrastructure investments.

### PROGRAMS AND SERVICES

- Workforce Development: Through the National Aerospace Workforce Solution Initiative (NAWSI), NADC seeks to characterize the existing aerospace workforce (initially among five states, then nation-wide), then extrapolate its future. Part of this analysis will require a thorough understanding of the total aerospace workforce past and present to provide a strong foundation from which to extrapolate future scenarios. This project is the first step toward developing a national strategic plan to develop and maintain a highly skilled and thriving aerospace workforce.
- Commerce: NADC provides and details characterization of markets, as it believes these constitute the engine that will drive space development.
- Education: NADC seeks to foster the education of the next generation of space leaders through special programs designed to encourage creativity and innovation.

- **Public Outreach:** NADC uses TV, radio, print, and various other media to promote the space program to the general public. Through public outreach the Center strives to garner newfound public support for space activities, a key ingredient to realizing any vision on the future of space.
- **Public Policy:** NADC can translate vision into strategies, which in turn can be crafted into public policy recommendations. These recommendations will be made for and with key representatives of all applicable branches of federal, state, and local governments.
- **Research and Analysis:** NADC's staff uses analysis to maximize its impact on the space program. Examples of analysis include studying historical data to develop trends into the future, workforce demographic characterization, space market forecasting, etc. NADC works directly with key members the industry to determine and complete the projects necessary to maintain a thriving industry.

## NATIONAL SPACE SCIENCE AND TECHNOLOGY CENTER

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### MISSION

The National Space Science and Technology Center works to conduct and communicate research and development critical to NASA's mission in support of the national interest, to educate the next generation of scientists and engineers for space-based research and to use the platform of space to better understand the Earth and space environment and increase knowledge of materials and processes.

### PROGRAMS AND SERVICES

Operates a laboratory for cutting edge research in selected scientific and engineering disciplines  
Provides cooperative research for undergraduate and graduate students and experience for educators  
Performs research in a wide range of areas related to science and technology using spacecraft, sounding rockets, balloons, and aircraft, as well as laboratory experiments

## SPACE RESEARCH INSTITUTE (SRI)

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### OVERVIEW

The Space Research Institute (SRI) performs research and technology development on hybrid electric power systems for use in space and on earth, electric propulsion systems for space transportation systems and durability testing of spacecraft materials using a world-unique hypervelocity impact facility. Other activities include cabin atmosphere revitalization for astronauts and surface power systems for the moon and Mars. Sponsors include the U.S. Army, Air Force, Navy and NASA, as well as Industrial entities. The Institute is committed to an independent, unbiased approach to research. For 20 years,

SRI has solved numerous research and development problems in aerospace, defense, and energy technology areas for space and terrestrial applications.

Institute personnel manage the Center for Space Exploration Power Systems (CSEPS). The CSEPS at Auburn University works with the Air Force and NASA on powering human and robotic missions in space and meeting the energy challenges of life on Earth. The Center is leading the way in harnessing the power of the sun and turning it into usable energy, through solar arrays that they test at their large facility. These arrays consist of solar cell panels that soak up sunlight, transforming it into electrical energy. In addition, SRI researchers develop electric propulsion systems, power supplies, and energy storage. They are engineering new Stirling engines with no wear-out mechanisms, which will have the long life needed for space and Earth applications.