

What Can I Do With This **Ohio State** Major?

Bachelor of Science

Aeronautical and Astronautical Engineering

College of Engineering

Aeronautical and astronautical engineering (AAE) focuses upon the challenges of flight. The proper aerodynamic shape, the correct engine for clean propulsion, the best materials for lightweight structures, and the safest control systems must be integrated to produce an efficient and economical flying machine. Our faculty brings their expertise in the varied disciplines of aerospace engineering to the classroom and laboratory and use extensive research activities to enhance their lectures. A fascination with flight and an interest in airplanes or spacecraft is often the primary motivation for starting a career in aeronautical and astronautical engineering. By the time a student graduates, they had developed a technical interest in aerodynamics, structures, dynamics, propulsion, controls, design, or systems. Those going on to obtain graduate degrees do so because they are interested in specific technical areas in which they wanted to develop more expertise.¹

Career Areas/Job Titles:

Management and Industry

Entrepreneur
Structural Design Expert
Manager
Manufacturing Expert
Consultant
Materials Specialist
Propulsion Expert
Sales Person

Operations Specialist
Guidance and Control Systems
Communication and Media
Technical Writer
Grant Writer
Marketing Specialist
Science and Technology
Research and Design Specialist
Aerospace Engineer

Design Engineer

Education

K-12 Teacher
Professor

Government/Politics

Lobbyist
Lawyer

**Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.*

Transferable Skills:

Basic Computer Skills	Willingness to Take Risks	Initiative
Engineering Fundamentals	Conceptualization	Delegating Tasks
Mathematic Skills	Defining Needs	Organization Skills
Physics Foundation	Forecasting/Predicting	Planning
Persuasion	Identifying Problems	Prioritizing Tasks
Provide/Respond to Feedback	Setting Goals	Strategic Planning/Visioning
Use Technology Effectively	Adaptability/Flexibility	Creating Innovative Solutions
Written Communication	Attention to Detail	Quantitative Reasoning
Teamwork	Judgment & Decision Making	Analytical/Critical Thinking

**This is not an extensive list of transferable skills. See larger list of skills you might develop here:*

<http://ccss.osu.edu>

Professional Links:

American Institute of Aeronautics and Astronautics: <https://www.aiaa.org>

Aerial Robotics Team at Ohio State: <http://engineering.osu.edu/studentorgs/buckeye-aerial-robotics-team>

AAE at Ohio State: <http://mae.osu.edu/undergraduate/aeronautical-and-astronautical-engineering-program>