



COLLEGE OF ENGINEERING
 KEVIN T. CROFTON DEPARTMENT OF
 AEROSPACE AND OCEAN ENGINEERING
 VIRGINIA TECH.

MAJORING IN AOE

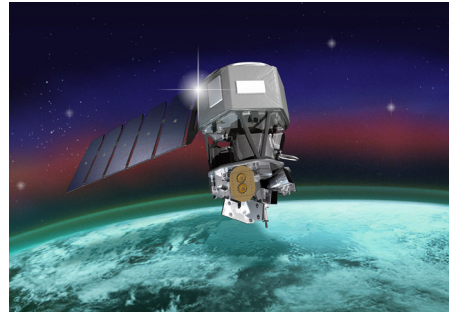
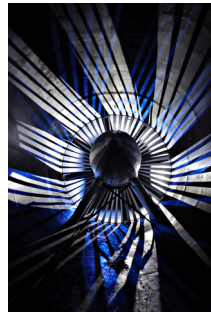
WHAT IS AEROSPACE ENGINEERING?

Aeronautics is the science and engineering involved with the analysis, design, and manufacturing of air-flight capable machines that operate within the atmosphere for exploration, recreation, transport, and defense.

Astronautics is the science and engineering involved with the design, and manufacturing of machines which operate beyond Earth's atmosphere for exploration, recreation, transport, and defense.

WHAT IS OCEAN ENGINEERING?

Hydroautics is the science and engineering involved with the analysis, design, and manufacturing of marine craft and instruments for exploration, recreation, transport, and defense in ocean and fresh-water environments.



CONCENTRATIONS

AERO-HYDRODYNAMICS

DYNAMICS, CONTROL, & ESTIMATION

ENERGY & THE ENVIRONMENT

FOUNDATIONAL OPTION

NAVAL ENGINEERING

PROPULSION

SPACE ENGINEERING

STRUCTURES & MATERIALS

VEHICLE & SYSTEM DESIGN

#5

2019 College
 Factual

TOP RANKED
 AEROSPACE &
 AERONAUTICAL
 ENGINEERING

#15

2020 U.S. News &
 World Report

AEROSPACE
 ENGINEERING
 UNDERGRADUATE
 PROGRAM

#14

2020 U.S. News &
 World Report

AEROSPACE
 ENGINEERING
 GRADUATE
 PROGRAM

#5

2018 Center For
 World University
 Rankings

AEROSPACE
 ENGINEERING

#11

2018 Shanghai
 Global
 Rankings

AEROSPACE
 ENGINEERING

CAREERS IN AOE: FAST FACTS

RECENT SURVEYS* OF AOE GRADUATES INDICATE:

57% expected full-time employment

29% furthered studies in graduate school

12% went into the military or volunteer service

*conducted by the Virginia Tech Provost Assessment Office and the Office of Career and Professional Development

In 2017-18, AOE graduates median salary was **\$65,000** and of those employed, **92%** had jobs closely related to their career goals.



WHERE OUR ALUMNI END UP

- AEROSPACE INDUSTRY
- SHIP BUILDING INDUSTRY
- FEDERAL GOVERNMENT AGENCIES
- RENEWABLE ENERGY INDUSTRY

Employers range from large, multinational corporations to small consulting firms. Some alumni choose to go into related fields such as automotive engineering, structural engineering, environmental engineering, or into professions such as law or medicine.

AWARD WINNING DESIGN TEAMS

AIAA DESIGN BUILD FLY

SAILBOT

HUMAN POWERED SUBMARINE

ROCKSAT-X

AERO SAE

ROCKETRY AT VT

ORBITAL LAUNCH VT

AUSVI SUAS

WIND TURBINE TEAM

STUDENTS FOR EXPLORATION
AND DEVELOPMENT OF SPACE

3DPAC



For more information on our degree programs, visit
www.aoe.vt.edu/undergraduate