

WHAT IS AEROSPACE ENGINEERING?



Aerospace Engineering is a field of engineering concerned with the design, manufacturing, testing and performance evaluation of air and space craft for atmospheric or orbital flight; such as the airplanes, helicopters, missiles, rockets and satellites. Aerospace engineers apply the principles of science and technology to create both air and space vehicles and systems. They do research and development work to create novel air and space craft by designing their detailed schematics and keep records of their performance for future reference and test and validate the designed prototypes to make sure that they function according to their design.

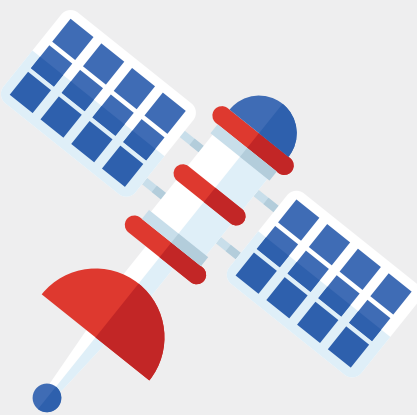


Aerospace Engineering program allows the students to get specialized in four major fields of study related to "Air and Space Systems":

- **Aerodynamics:** the engineering discipline dealing with the interaction between the flying systems and the fluid in which they are moving.
- **Structure:** the engineering discipline which studies the science of forces and moments acting on the aircraft and spacecraft.
- **Propulsion:** the engineering discipline dealing with the study of generation of the required thrust/propulsion to move the vehicle in question either in the air or in outer space.
- **Control:** the engineering discipline dealing with the control and stability of the flying system while performing a defined mission in a controlled manner. In a way, understanding the system behavior/response due to various control input. Aerospace Engineering Program is therefore multi-disciplinary in nature and is very closely related to the disciplines of Mechanical, Electrical and Computer Engineering.

WHY AEROSPACE ENGINEERING AT METU-NCC?

The Aerospace Engineering Program of METU NCC gets its strength from the support provided by the world wide known Aerospace Engineering Department of the main campus in Ankara. We consider the Aerospace Engineering degree program of the Northern Cyprus Campus as an unequaled opportunity to reflect the best practices of teaching and education in the field of aerospace engineering at METU. With our highly qualified faculty, we aim to adopt the most recent teaching and learning methods and educational tools, and to equip our students with project oriented, hands-on real life problem solving techniques.



CAREER OPPORTUNITIES FOR AEROSPACE ENGINEERS



- structural engineering
- aerodynamics and computational fluid dynamics, wind tunnel testing
- stability and control
- guidance and navigation
- design
- system engineering
- test engineers
- field service (maintenance, service support, training)
- aerospace science

EMPLOYMENT OPTIONS FOR AEROSPACE ENGINEERS

- Aerospace industry
- Private industry
- Government organisations