

# Aeronautical Engineering

Aeronautical engineering is the study of **design, manufacturing, production, preventive maintenance and overhaul of the aircrafts (Commercial, military, private jets)**. It is one of the most popular and challenging fields among students who want to pursue their career in the aviation industry.

As an aeronautical engineer, career opportunities not only exist in design and production of an aircraft but automobile industry, fan industries, turbines, high-speed trains and UAVs also offer a number of great career options. Aeronautical engineers have a huge contribution in all the fields of engineering wherever there is an interaction of air with the product like racing cars, premium fans, wind mill etc. Indian aerospace industry is at an inflexion point today and is one of the fastest growing industries in the world.

Increasing popularity of air travel and space exploration require a high level of expertise and academic know-how of aeronautical engineering subjects. Looking at the exponential growth rate, the demand for qualified and capable Aerospace Engineers is only going to increase in the near future.

## Top Recruiting Companies & Agencies

A good academic background and soft skills in the Aeronautical engineering lead to a challenging career and a very high salary. There are significant number of job opportunities available in Indian Air Force, Defence Ministry, Airlines, Aviation companies and research agencies like NASA, ISRO for the Aeronautical engineers. Today even the Original Equipment manufacturers (OEMs) are opening their shops in India and need a large number of aeronautical engineers. Some of the OEMs who are already in the Indian air space are Airbus, Boeing India, Lockheed Martin India, Mercedes Benz, Eaton, GE India etc.

## **Aeronautical Engineering Scope in Govt. Sectors**

From the government sector, some of the top recruiters from the government/defence sector are Defense Research and Development Laboratories (DRDO), Hindustan Aeronautical Limited (HAL), Aeronautical Development Agency (ADA), Air India, National Aerospace Laboratories (NAL), civil aviation department (DGCA). Every year DRDO recruits some of the Aeronautical Engineers as a Scientist 'B' depending on the GATE score. Other labs of the government sector recruit aeronautical engineers as a Graduate Engineer Trainee.

## **Aeronautical Engineering Scope in Private Sectors**

There are more number of private companies in India which is a helping hand to the big companies. Some of them are Bharat Electronics Ltd., BrahMos Aerospace Pvt Ltd., Honeywell Aerospace, Altran India, Taneja Aerospace & Aviation Ltd., Godrej & Boyce Manufacturing Company, Mahindra Aerospace.

In India aerospace is one of the fastest growing industries. Therefore the number of start-ups is increasing day by day. These start-ups deal with manufacturing, consultancy and maintenance to the giant companies.

There are a number of airlines which recruit aeronautical engineers. Some of them are Indigo, Spicejet, Air India, and others. After the graduation, you can go for further studies in India's most reputed institutes like IITs after clearing the GATE exam.

## **Top Job Profiles of a Aeronautical Engineer**

Aeronautical engineers can work as a Racing Car Designer, Flight Mechanics Engineer, Graduate Engineer Trainee, Assistant aircraft engineer, Aircraft Production engineer, Assistant Technical officers and Air safety officer and as a space scientist in government organisations. After graduation, the students can also apply for the post-graduation in India's most reputed institutes like IITs after clearing the GATE exam.