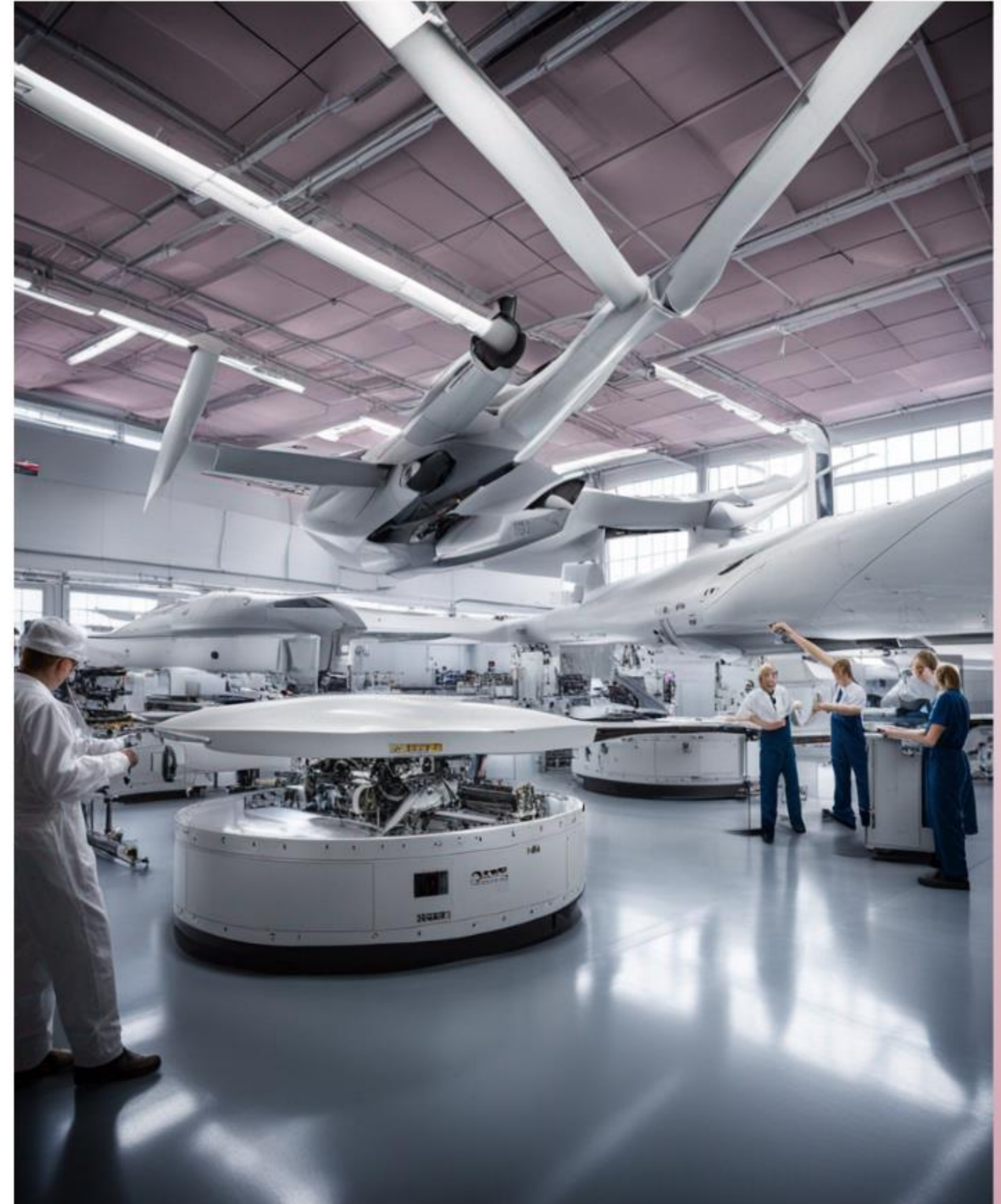




AEROSPACE ENGINEERING

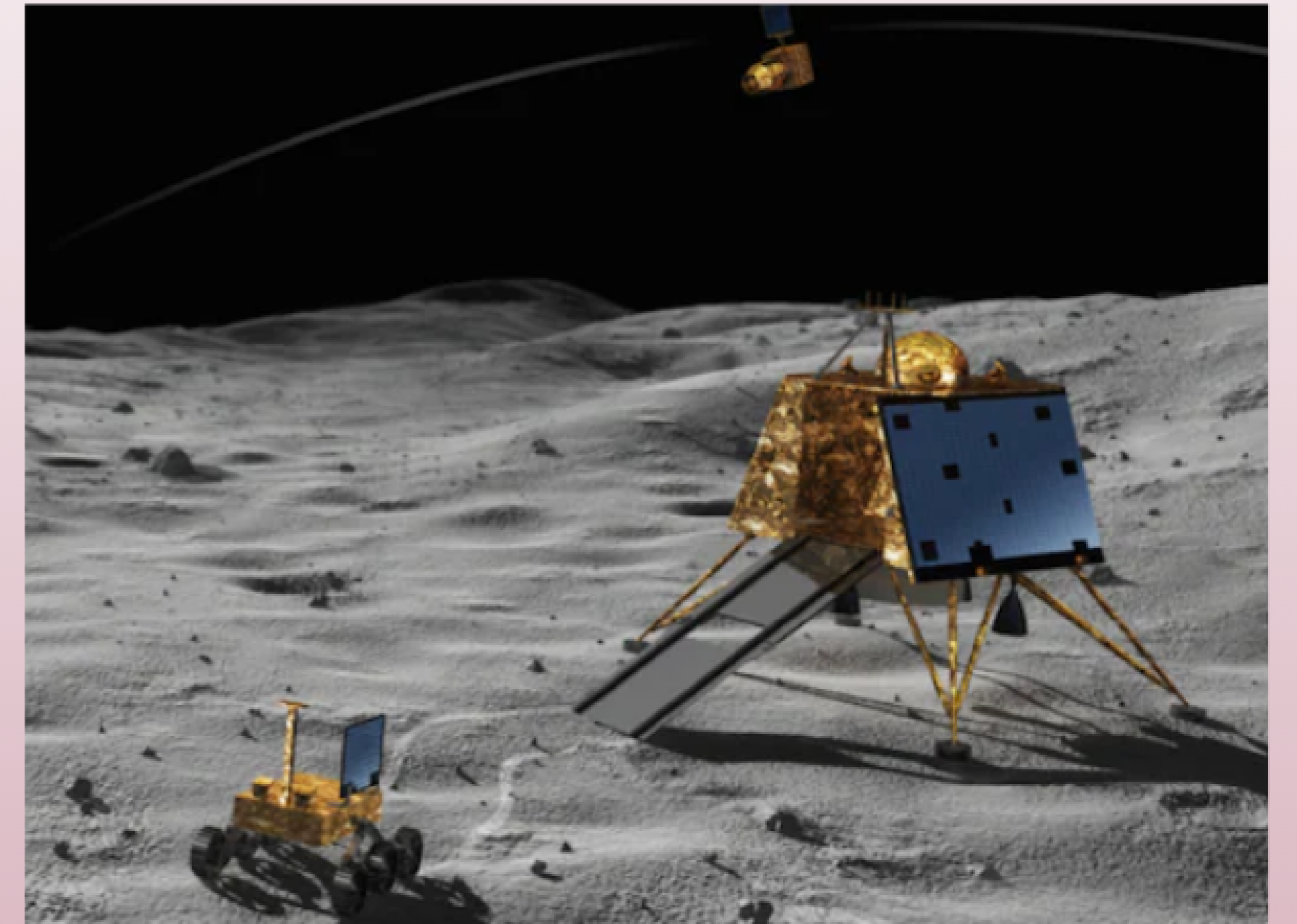
Flying High with Science



Chandrayan-2

Chandrayaan 2, India's second lunar mission, made history by including an orbiter, lander (Vikram), and rover (Pragyan). Although the lander did not achieve a soft landing as planned, the orbiter continues to orbit the Moon, sending back valuable data. This mission demonstrated India's growing prowess in space exploration and marked a significant step in understanding the Moon's geology, topography, and atmosphere.

Chandrayaan 2 symbolizes India's commitment to scientific research, innovation, and its aspiration to explore the mysteries of the cosmos.





Captain Sandeep Mishra

(Education for Everyone)

A renowned commercial pilot of Odisha, having more than 20 years of flying experience.

Captain Mishra is Director of Center of Aviation and space and Founder and CEO of AEROMASTERCLASS.

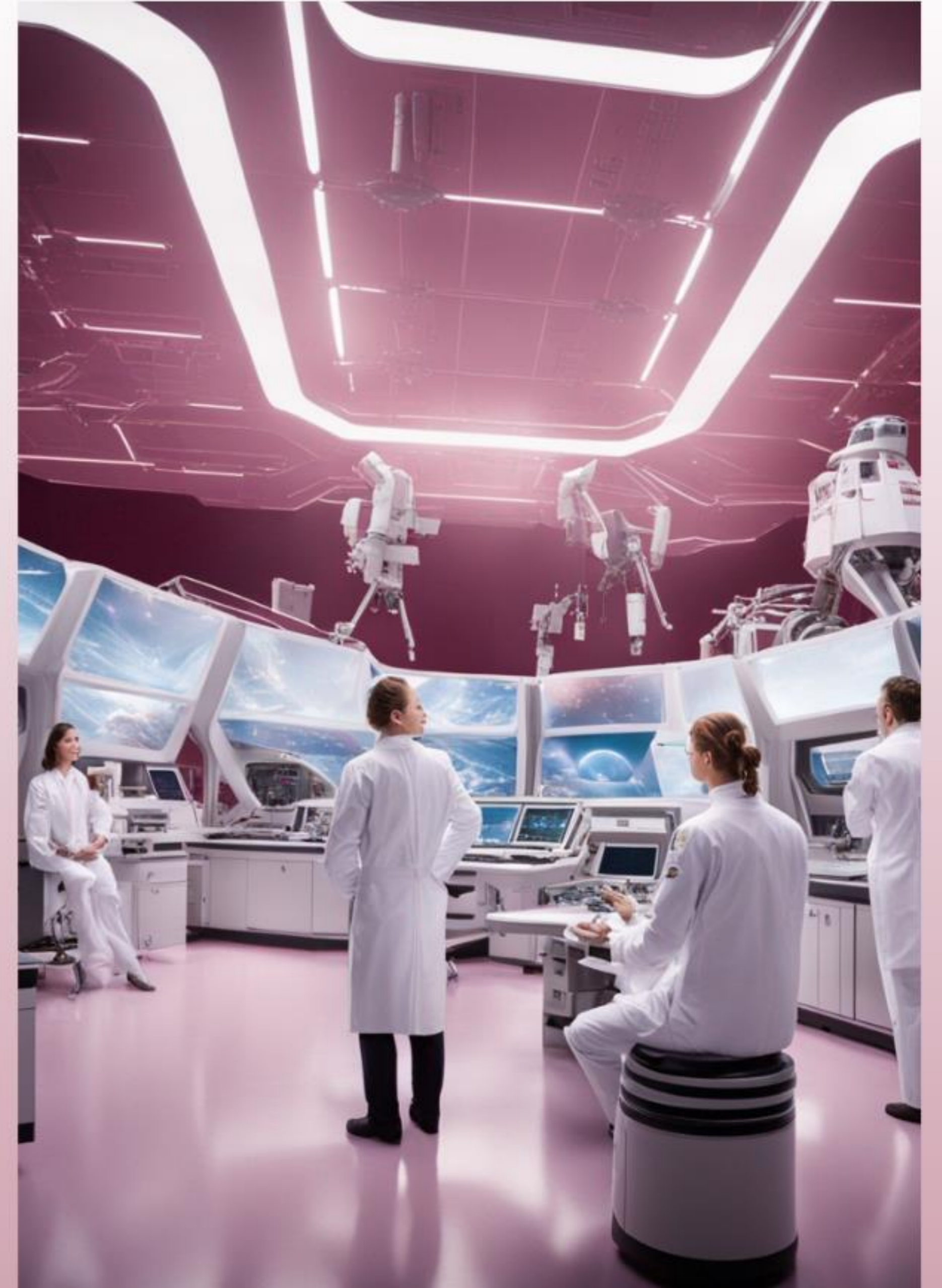
Founder of Blackstar Aviation and Air Kalinga.

"Every Student Every Kid Who Have a Dream To become a pilot, a Aerospace engineer, Flight operational personal Irrespective of Any FINANCIAL BACKGROUND, Maybe his parents own a BMW or can't even afford a cycle Should be given an EQUAL OPPORTUNITY to Fulfil THEIR DREAMS to have a Successful Career in Aviation and Space industry. "

What is Aerospace Engineering?

Introduction to Aerospace Engineering

Aerospace Engineering is a branch of engineering that deals with the design, development, testing, and production of aircraft and spacecraft, including their components and systems, as well as the study of aerodynamics and propulsion.





Overview of Aerospace Engineering

A glimpse into the world of aerospace engineering

Aerospace engineering is a branch of engineering that deals with the design, development, and production of aircraft and spacecraft, as well as the study of their performance and characteristics, making it an exciting and innovative field with endless possibilities.

LEGANDS OF AEROSPACE

"Inspiration to countless young minds, the legends of aerospace engineering are idols to millions of youth worldwide."



Bharat Ratna Dr.A.P.J Abdul Kalam
(Former president of India)



Miss. Kalpana Chawla
(Aerstronaut)



Mr.Elon musk
(Richest Person of World)



Mr.Rakesh Sharma
(Aestronaut)



Mr.Neil Amstrong
(First person landed on Moon)

Qualification required for B.Tech in Aerospace Engineering

12th Science with minimum 50% in Physics,
Chemistry ,Math and aggregate 50%

or any diploma from reconiged Board or University



Why Choose Aerospace Engineering?

❑ 1. Exciting career opportunities

Aerospace engineering offers a wide range of exciting career opportunities, including working on cutting-edge technology and exploring outer space.

❑ 2. High demand

Aerospace engineering is a high-demand field, with a growing need for skilled professionals to design and develop new aircraft, spacecraft, and unmanned aerial vehicles.

❑ 3. Innovation and advancement

Aerospace engineering is at the forefront of innovation and advancement, pushing the boundaries of technology and solving complex problems.

❑ 4. Global impact

Aerospace engineering has a global impact, contributing to scientific research, national defense, transportation, and communication systems.

❑ 5. Competitive salaries

Aerospace engineers are highly valued and rewarded with competitive salaries and benefits for their expertise and contributions.

❑ 6. Combination of all Engineering

An Aerospace Engineer can work in maximum sector of Engineering like IT sector, Electrical Sector, Mechanical Sector and many more....

❑ 7. Personal satisfaction

Aerospace engineering offers personal satisfaction by being part of groundbreaking projects, contributing to the advancement of technology, and making a difference in the world.

❑ 8. Job Opportunities in the Public Sector.

The Indian Space Research Organisation (ISRO) is one of India's largest recruiters of aerospace engineering in the public sector. They are constantly looking for qualified and skilled professionals who hold qualifications from leading aerospace engineering universities. Working in such a reputed and high-tech organisation can help you achieve your professional goals while also helping the nation develop its aerospace technologies.

Aircraft Design and Development

Specializing in the creation and advancement of aircraft technology within the field of Aerospace Engineering.

Aircraft Design and Development within Aerospace Engineering is a specialization that focuses on the creation, improvement, and innovation of aircraft technology, including the design of aircraft structures, systems, and components, as well as the development of advanced materials and manufacturing processes to enhance performance, efficiency, and safety.



Spacecraft Systems Engineering

Specialization in Aerospace Engineering

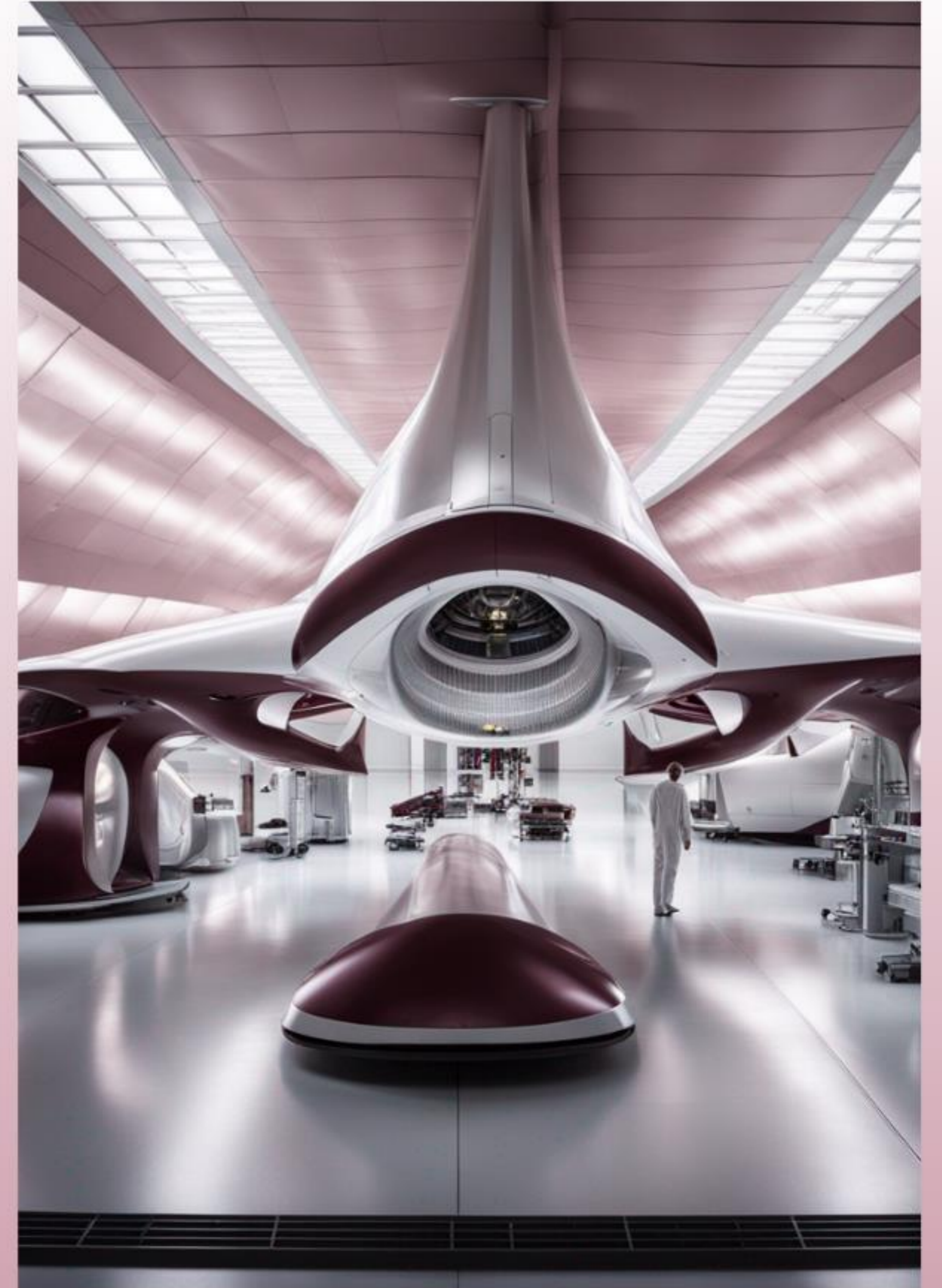
Spacecraft Systems Engineering is a specialized field within Aerospace Engineering that focuses on the design, development, and operation of spacecraft systems, including satellite systems, launch vehicles, and space exploration missions.



Aerodynamics and Propulsion

The Science Behind Flight

Aerodynamics and Propulsion is a specialization in Aerospace Engineering that focuses on the study of the forces and motion involved in aircraft and spacecraft propulsion, as well as the design and optimization of aerodynamic systems and structures.





Career Opportunities

Job Prospects in Aerospace Engineering

- ❑ **Aerospace Engineer**
Design, develop, and test aircraft and spacecraft.
- ❑ **Aircraft Manufacturing Engineer**
Oversee the manufacturing process of aircrafts.
- ❑ **Avionics Engineer**
Design and develop aircraft electronics and communication systems.
- ❑ **Aerospace Systems Engineer**
Design and integrate systems for aircraft and spacecraft.
- ❑ **Flight Test Engineer**
Conduct tests and evaluate performance of aircraft and spacecraft.
- ❑ **Aerospace Materials Engineer**
Research and develop materials for aerospace applications.
- ❑ **Aerospace Structural Engineer**
Design and analyze the structural components of aircraft and spacecraft.
- ❑ **Satellite Engineer**
Design and develop satellites for various applications.
- ❑ **Aerospace Project Manager**
Manage and oversee aerospace projects from conception to completion.
- ❑ **Aerospace Consultant**
Provide expert advice and guidance on aerospace projects and initiatives.

Companies in Aerospace Engineering

- ❑ **ISRO (Indian Space Research Organization)**

ISRO is the primary organization responsible for India's space research and exploration efforts. It offers a wide range of aerospace engineering positions for space research, satellite development, and space missions.
- ❑ **DRDO (Defense Research and Development Organization)**

DRDO is responsible for defense-related research and development in India. It offers aerospace engineering jobs in projects related to defense technology, including missiles, aircraft, and more.
- ❑ **HAL (Hindustan Aeronautics Limited)**

HAL is a government-owned aerospace and defense company that designs, manufactures, and maintains aircraft, helicopters, and related systems. It offers opportunities for aerospace engineers.
- ❑ **ADA (Aeronautical Development Agency)**

ADA is involved in the development of indigenous military aircraft in India, such as the Tejas fighter jet, and often hires aerospace engineers.
- ❑ **Indian Air Force**

The Indian Air Force employs aerospace engineers for various roles, including aircraft maintenance, research, and development.
- ❑ **Indian Navy**

The Indian Navy also offers opportunities for aerospace engineers in roles related to naval aviation and aerospace systems.
- ❑ **Public Sector Undertakings (PSUs)**

Several PSUs in India, such as Bharat Electronics Limited (BEL) and Bharat Dynamics Limited (BDL), are involved in the defense and aerospace sectors and hire aerospace engineers.
- ❑ **Tata Advanced Systems Limited**

Tata Group has a presence in the aerospace and defense sector and offers jobs in aircraft manufacturing, maintenance, and related fields.
- ❑ **Mahindra Aerospace**

Mahindra Aerospace is involved in the development of aircraft and aerospace components and often hires aerospace engineers.
- ❑ **Larsen & Toubro (L&T)**

L&T has a significant presence in engineering and construction, including aerospace and defence projects.
- ❑ **Reliance Aerospace**

Reliance Group has ventured into the aerospace and defense sector and may offer opportunities in aircraft manufacturing and related technologies.
- ❑ **Skyroot Aerospace**

Skyroot Aerospace is a Hyderabad-based startup working on developing small satellite launch vehicles.
- ❑ **Digantara Aerospace:**

Digantara Aerospace is involved in developing unmanned aerial vehicles (UAVs) and drone technology for various applications.
- ❑ **Bellatrix Aerospace**

Bellatrix Aerospace, also based in Hyderabad, focuses on developing satellite propulsion systems and other space technologies.
- ❑ **Blackstar Aviation**

Leading Aircraft Component and parts manufacturer

International level Opportunities in Aerospace Engineering

❑ **NASA (National Aeronautics and Space Administration)**

The United States' government agency responsible for the nation's civilian space program and for aeronautics and aerospace research. NASA conducts space exploration missions and scientific research.

❑ **ESA (European Space Agency)**

ESA is an intergovernmental organization dedicated to the exploration of space. It includes multiple European countries and focuses on space research, satellite development, and space exploration.

❑ **Roscosmos (Russian Federal Space Agency)**

Roscosmos is the governmental body responsible for the space science program of the Russian Federation. It manages Russia's space exploration activities.

❑ **CNSA (China National Space Administration)**

CNSA is responsible for China's space program, including the development of satellites, space exploration missions, and lunar and Mars exploration.

❑ **JAXA (Japan Aerospace Exploration Agency)**

JAXA conducts space exploration, research, and development in Japan, including missions to the International Space Station and lunar exploration.

❑ **ESA (European Space Agency)**

ESA is an intergovernmental organization with multiple European member states, focused on space research, satellite development, and space exploration.

❑ **UK Space Agency**

The UK Space Agency is responsible for the United Kingdom's space program, including satellite technology, space research, and participation in international space missions.

❑ **SpaceX**

SpaceX, founded by Elon Musk, is known for its groundbreaking achievements in space exploration, including the development of the Falcon and Starship spacecraft.

❑ **Blue Origin**

Blue Origin, founded by Jeff Bezos, focuses on developing space launch and exploration technologies.

❑ **Airbus**

Airbus is a European aerospace corporation specializing in commercial aircraft, military transport aircraft, and space technology.

❑ **Boeing**

Boeing is a major American aerospace company known for its commercial and military aircraft, as well as space exploration and defense technology.

❑ **Lockheed Martin**

Lockheed Martin is a prominent American aerospace and defense company involved in various aerospace and military projects, including the F-35 Lightning II fighter jet.

❑ **Rolls-Royce**

Rolls-Royce is a British aerospace and defense company known for its aircraft engines and propulsion systems.

❑ **Dassault Aviation**

Dassault is renowned for its fighter aircraft, such as the Rafale, which is used by several countries' air forces for combat missions.

❑ **Safran**

Safran, a French multinational company, is involved in aircraft and aerospace propulsion, landing gear, and more.

Salary and Benefits

Attractive rewards for aerospace engineers!

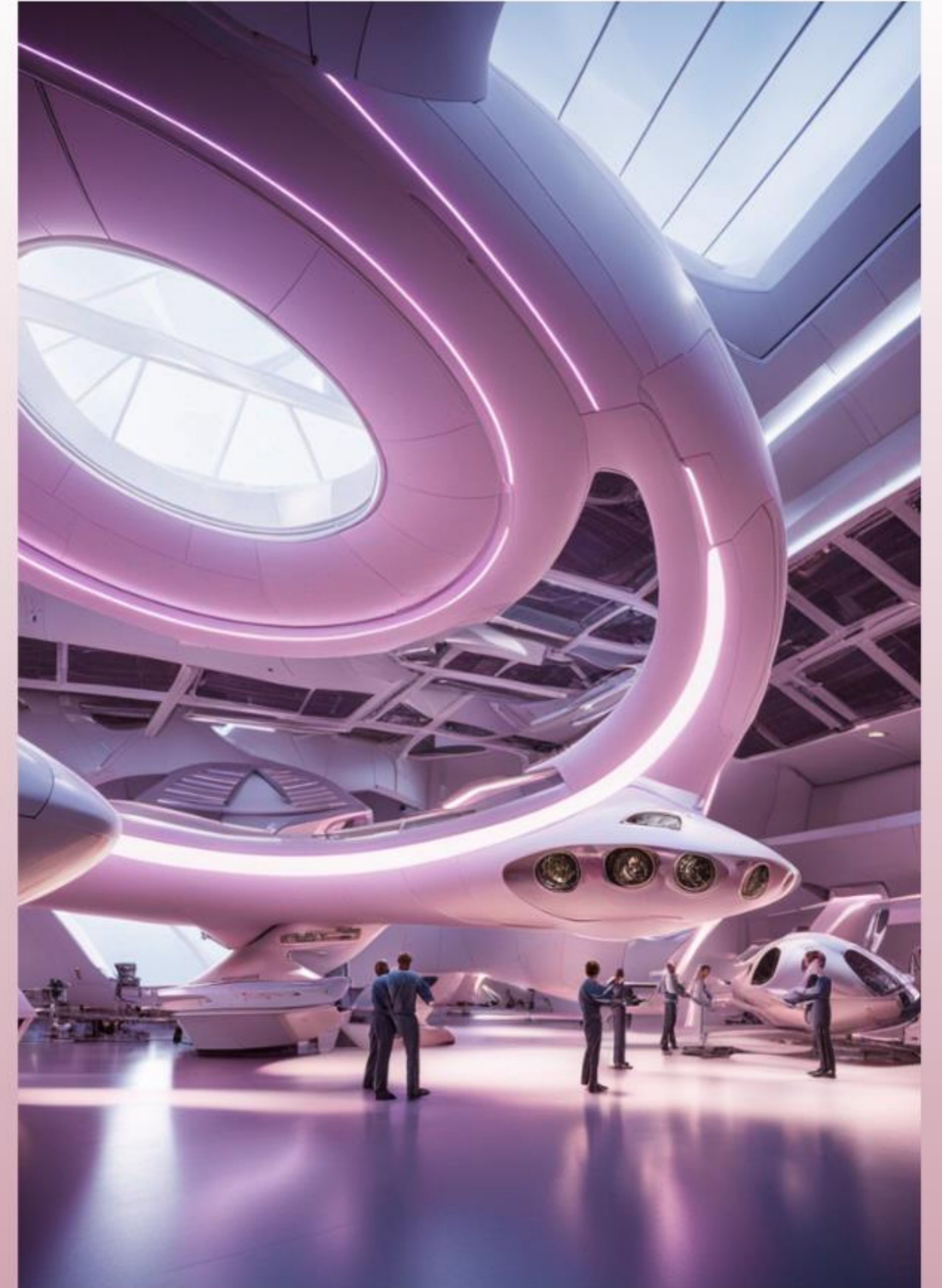
A career in Aerospace Engineering offers competitive salaries, excellent benefits packages, and opportunities for professional growth and advancement. EARN IN Crore.



Future of Aerospace Engineering

The future is bright for Aerospace Engineering

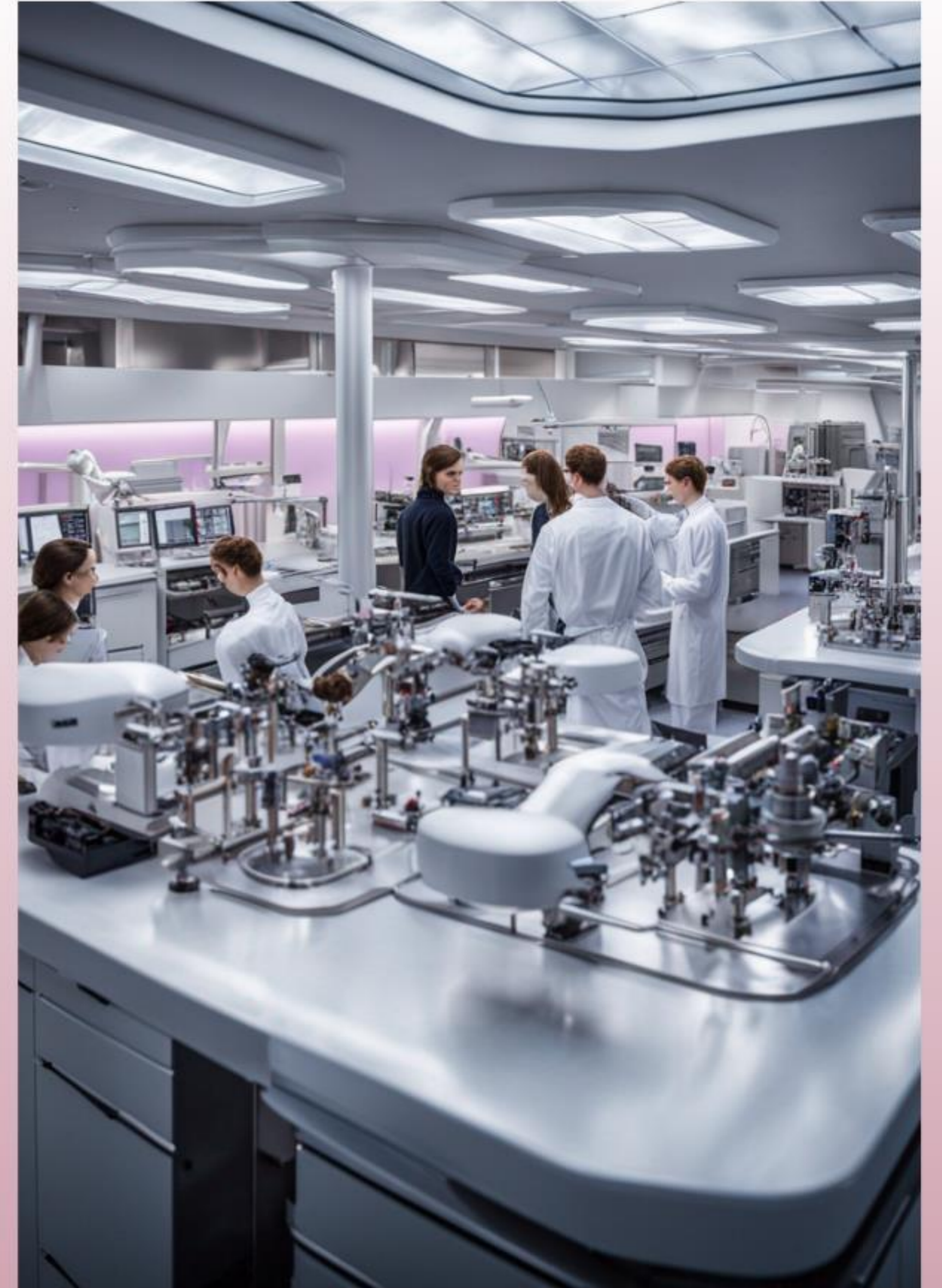
With continuous advancements in technology, the future of Aerospace Engineering holds exciting opportunities for innovation, space exploration, and sustainable transportation solutions.



Join Aerospace Engineering Today!

Explore the world of Aerospace Engineering and be a part of the future of aviation and space exploration.

Join us today to embark on a thrilling journey of designing and developing aircrafts, spacecrafts, and exploring the limitless possibilities of aerodynamics and propulsion in the field of Aerospace Engineering.



We are the first and best skill University in India.

NAAC A+

- ❑ 50+ company workshops are there inside our campus boundary.
- ❑ faculty members are highly experienced with more than 25 years experience.
- ❑ Only University or institute in India that has the workshop of Dassault system (the mother company of the mighty rafle aircraft)
- ❑ The only University who have HAL's (Hindustan Aeronautics Ltd.) Workshop which is a Central govt company.
- ❑ As Capt. Sandeep sir has multiple organisations like Air Kalinga and all.. we can assure students 100% Placement assistance.
- ❑ we have an aeromodelling club and our students compete with students from other colleges like IIT BBSR, IIT BOMBAY, NIT ROURKELA
- ❑ Opportunities to go international Aerospace company in Advance Training progamme
- ❑



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Captain Sandeep Mishra Aerospace Scholarship Entrance

Log on www.aeromasterclass.com for online application or fill the off line form. Last date:-17th March.2024

(Aviation or Aerospace Captain Sandeep Mishra means sure success)

