

Chofu Aerospace Center

The Chofu Aerospace Center includes departments such as Research and Development Directorate and Aviation Program Group.

Chofu Aerospace Center carries out cutting-edge research and development to enhance aviation technology and space development that meet the needs of the society. Efforts are also made to equip the Center with large-scale facilities such as wind tunnels and super-computers that are needed to carry out research and development related to space and aviation.



Chofu Aerospace Center Entrance



Chofu Aerospace Center Aerodrome Branch (multi-purpose MuPAL-a experimental aircraft)

Overview

[Area]

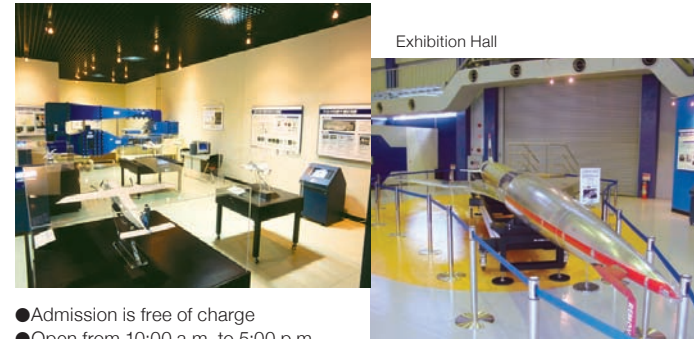
Total Site Area

173,140.90 square meters

(A space of 51,636.25 square meters is allocated to the Chofu Aerospace Center Aerodrome Branch)

Exhibition Hall

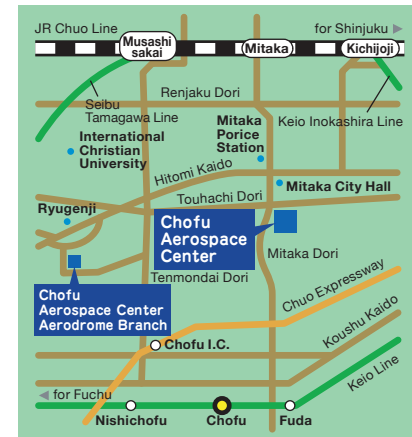
The Exhibition Hall introduces the past and ongoing research activities. A Space Mission Simulator which visitors can experience flight operation simulation by space planes and a wind tunnel model that can create an airflow are also located at the hall.



- Admission is free of charge
- Open from 10:00 a.m. to 5:00 p.m.
- Closed on Saturdays, Sundays, public holidays, and New Years' Holidays (December 29 through January 3)

If you are interested in a group tour, please contact the tour staff at the Chofu Aerospace Center.

Access Map



Access by public transportation

- Chofu Aerospace Center
 - Take the JR Chuo Line or the Keio Inokashira Line to Kichijoji Station (South Exit), transfer to the bus going to Musashi-sakai eki minami guchi (Musashi-sakai Station South Exit) at bus stop no. 3, get off at Mitaka Shiyakusho (Mitaka City Hall), and walk 5 minutes, or transfer to the bus going to Chofu eki kitaguchi (Chofu Station North Exit) at bus stop no. 8 and get off at Koken-mae.
 - Take the JR Chuo Line to Mitaka Station (South Exit), transfer to the bus going to Sengawa or Kyorin daigaku byoin (Kyorin University Hospital) at bus stop no. 7, get off at Mitaka shiyakusho (Mitaka City Hall), and walk 5 minutes.
 - Take the Keio Line to Chofu Station (North Exit), transfer to the bus going to Kichijoji eki (Kichijoji Station) at bus stop no. 14, get off at Koken-mae.
- Chofu Aerospace Center Aerodrome Branch
 - Take the Keio Line to Chofu Station (North Exit), transfer to the bus going to Musashikoganei-eki kitaguchi (Musashikoganei Station North Exit) at bus stop no. 12 or the bus going to Musashi-sakai eki minami guchi (Musashi-sakai Station South Exit) at bus stop no. 11, get off at Osawa Community Center, walk 15 minutes.

Chofu Aerospace Center

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JAXA Website: <http://www.jaxa.jp/>

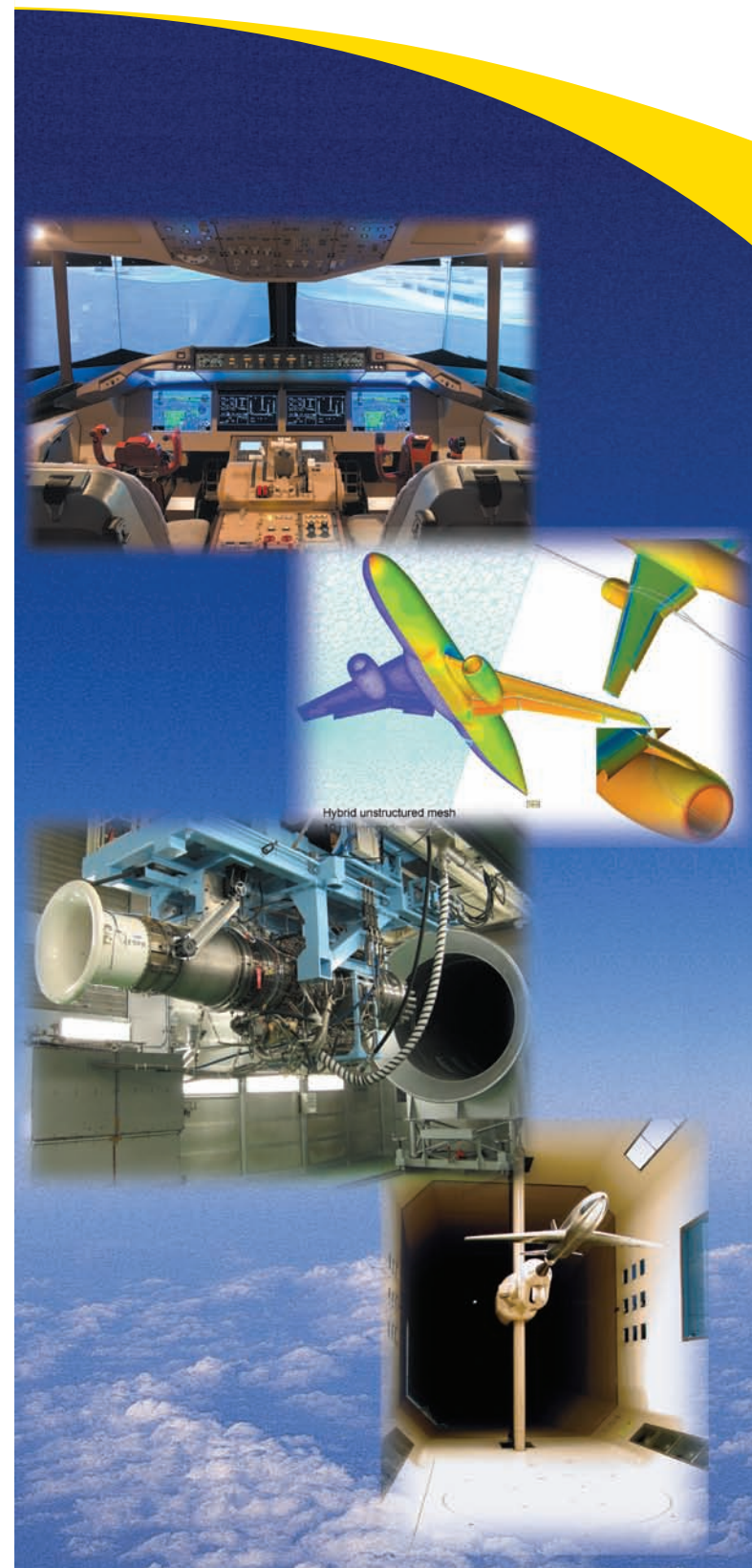


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Chofu Aerospace Center



Japan Aerospace Exploration Agency

JAXA's mission is to pursue the infinite possibilities for future development in the space.

We feel a longing and awe towards the vast universe that seems to be boundless.

Such feelings have been harbored since the start of humankind.

The world that our ancestors gazed upon and could only imagine is now an important field actively explored by humankind with the aid of incredible advances in science and technology.

Through these advances, a deep link was formed between space and all the people living on our planet.

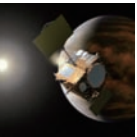
Although the vast universe remains shrouded in mystery, it reveals an infinite number of possibilities.

JAXA will continue to carry out great missions in order to pursue these mysteries, to expand our activities even further, and to give firm support to ensuring a secure and prosperous lifestyle.

Japan Aerospace Exploration Agency activities

Space Science

Explore the mysteries of space and the solar system, as well as the mystery of the forming of the earth and the beginning of life.



Satellites and Observational Imaging

Observe the earth with our "eyes" in space. Support our lifestyle with use of satellites.



Utilization of Space Environment

A new environment is grasped by humankind. International Space Station program is underway to explore the possibilities for utilization of the space.



Space Transportation System

Open up the possibilities for transportation systems that link the earth and space, and help development of space activities.



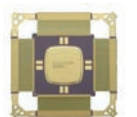
Aviation Research and Development

Aim to contribute to growth of the aviation industry and make new developments for future air transportations.



Fundamental Technology Research

Establish an autonomous technology platform through continuous accumulation of research.



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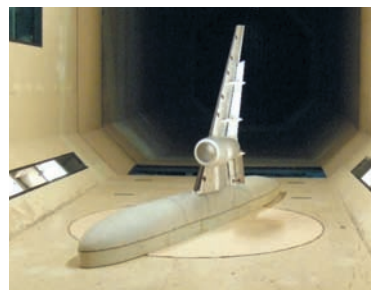
Aviation Science and Technology R&D

In addition to actively supporting development of domestically manufactured passenger aircraft and aeroengines, the Chofu Aerospace Center aims to respond to the requests of the society by conducting research and development to ensure safe air transportation and help expand use of aerospace.

Activities carried out at the Center include advanced elemental technology research aiming towards development of human-friendly next generation passenger aircraft, and research and development of eco-friendly competitive aeroengines that easily conform to aerospace environment standards for noise and gas emissions.

R&D is also underway on a quiet supersonic experimental aircraft that reduces the amount of sonic boom.

Other initiatives include R&D on next generation flight systems that are safe and convenient and capable of high density flight, research on technology for preventing accidents caused by pilots (human error), and R&D on Disaster Monitoring Unmanned Aerial Vehicle (UAV) systems.



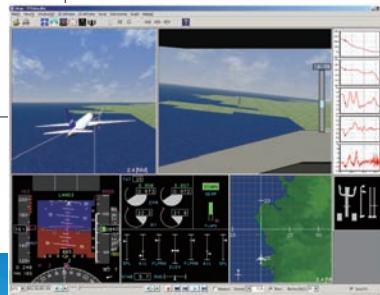
Wind Tunnel Test Model for research on high-lift devices



Annular Combustor



Quiet Supersonic Experimental Aircraft (image)



Data Review and Analysis Program (DRAP) Flight Data Visualization Program display

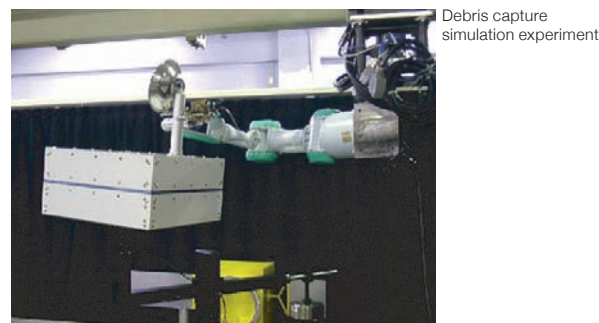


Flight tests with a small UAV (test model)

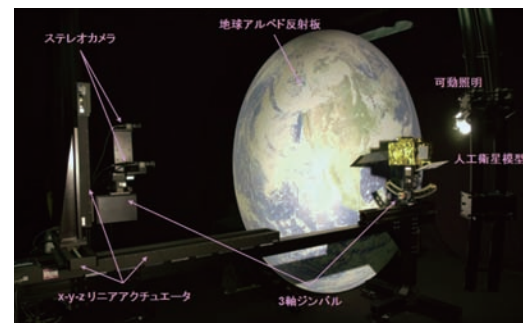
Space Technology R&D

To continuously expand space development in Japan in the future, the Chofu Aerospace Center carries out proactive R&D and leads future space projects.

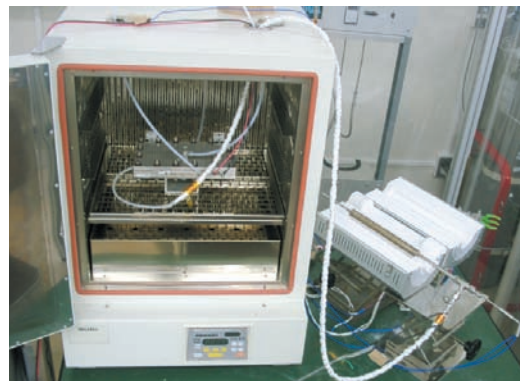
Safety of activities in the space is ensured by carrying out research on technologies for monitoring debris, collision risk management, and preservation of the orbital environment, as well as research on space robots to assist in carrying out space missions safely and economically.



Debris capture simulation experiment



Orbital lighting environment simulator



Sabatier reactor, and oxygen regeneration device that uses water electrolysis

Fundamental Technology Research and Test Facility

Fundamental research is conducted for future aerospace development, and various large-scale test facilities are open for industries and universities to conduct researches.

Computational Fluid Dynamics (CFD), in which a numerical simulator is used to calculate and replicate airflow, is an advanced technology that is indispensable to designs of aircraft and space planes. Development and evaluation of composite materials and progressive researches on engine elements and aircraft control are also undertaken in anticipation of the future.

The Chofu Aerospace Center is equipped with a broad range of facilities and equipments, including a large-scale wind tunnel, engine test facility, flight simulator, experimental aircraft, composite materials test facility, and numerical simulator system. These facilities are used to support R&D carried out by JAXA and assist in practical researches by providing opportunities for private corporations to use the facilities.



Composite Materials Test Facility



Flight Simulator Facility



Circular Combustor Test Facility



2m x 2m Transonic Wind Tunnel

[Main facilities]

