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# Graduate Education in JAXA

Takashi ABE

Graduate Education Center

JAXA/ISAS

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## Purpose of graduate education in JAXA

JAPAN Aerospace Exploration Agency (JAXA) supports graduate education with a view of contributing to **the development of academic research in science and technology**, as well as the training of researchers and engineers in the fields of space science and technology and aeronautical science and technology.

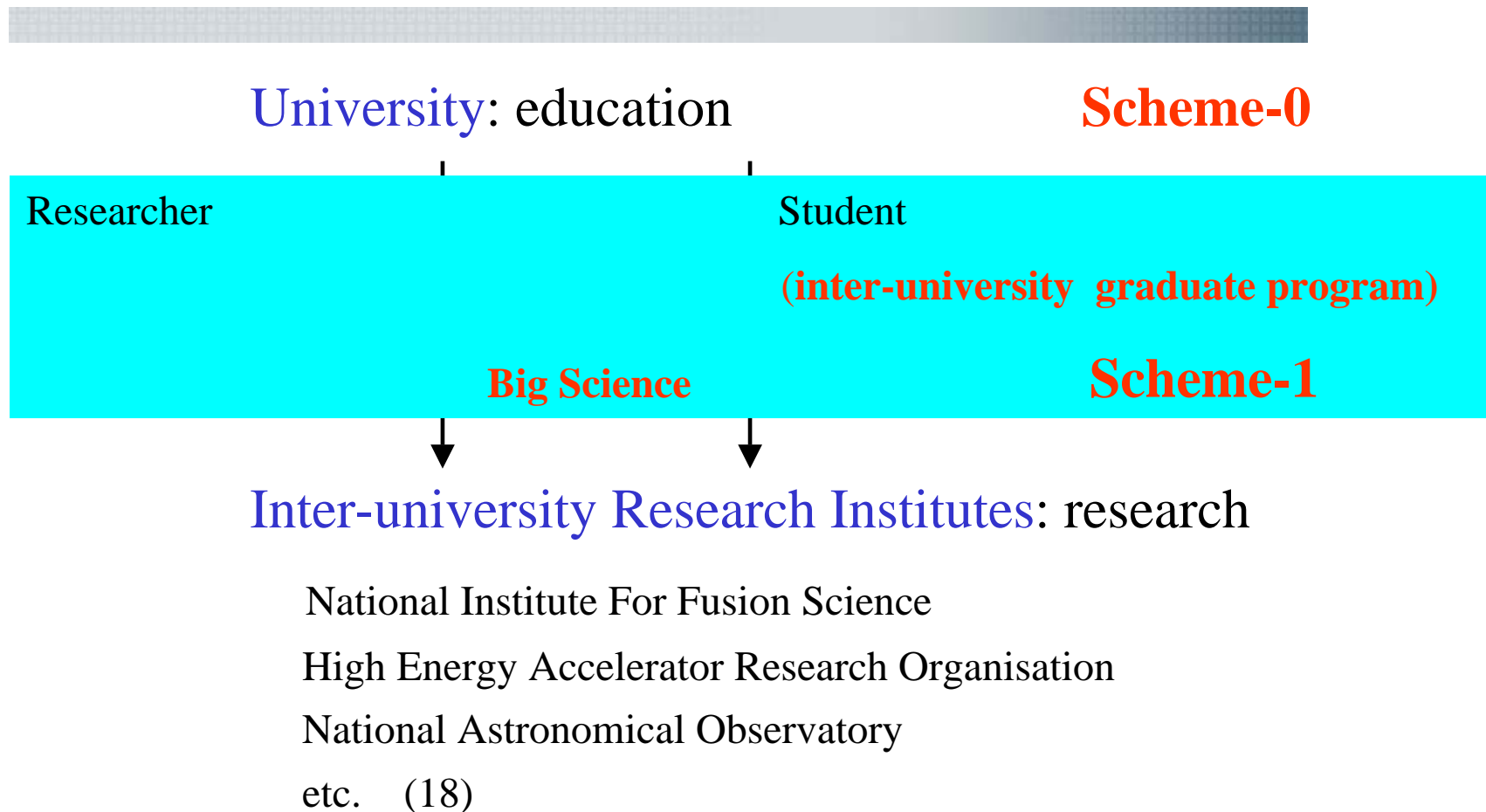
**(in JAXA's Business and Service Document)**

## JAXA's Mission

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- 1 Development of Launch vehicles and Space Transportation systems
- 2 International Space Station and Human Space Exploration
- 3 Space Science Research
- 4 Space and Aeronautic Engineering Research
- 5 Development of Satellite and Spacecraft
- 6 International cooperation
- 7 Graduate education

## University and Inter-university Research Institutes



## Various Education program other than University

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### Scheme-2 the Graduate University for Advanced Studies (SOKENDAI)

To explore and pursue new grounds in science with creative research activities through cooperative and integrated efforts among the 18 Inter-University Research Institution.

### Scheme-3 Collaboration program between Nation Research Institute and University

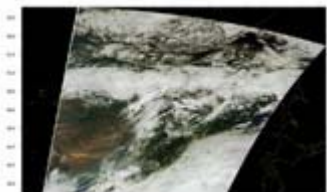
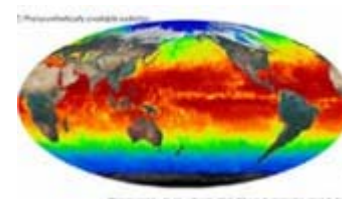
designed to foster young S&T researchers in the excellent research environment of national laboratories

# JAXA Principal bodies

Office of Space Flight and Operations (OSFO) Open up new possibilities for mankind



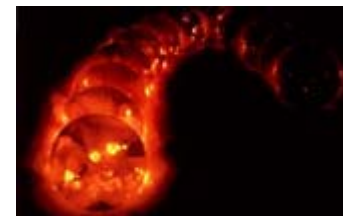
Office of Space Application (OSA) Link space to further improvement of our quality of life



Institute of Space Technology and Aeronautics (ISTA) Contribute to space development with basic and space-related technologies



Institute of Space and Astronautical Science (ISAS) Search for clues to the mysteries of outer space and the planets



## Characteristics of JAXA main bodies

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OSFO	}	(National research Institute)
OSA		
ISTA		
ISAS		(Inter-university Institute) (formerly a part of University of Tokyo)



## Various schemes for Graduate education in JAXA

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- 1 the Graduate University for Advanced Studies (Scheme-1) ISAS
- 2 Inter-university graduate education programs (Scheme-2) ISAS
- 3 Cooperation program with University of Tokyo (Scheme-3') ISAS
- 4 Collaboration program with other universities (Scheme-3) OSFO, OSA, ISTA, ISAS

Coordinated by Graduate Student Education Center

## Collaboration program with other universities

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Tokyo Institute of Technology

Aoyama Gakuin University

Tokyo Metropolitan University

Kagoshima University

Hokkaido University

etc.

(currently 9 universities)

# Fields of Education

## (Science)

- Space astrophysics
- Space plasma
- Planetary science
- e.t.c.

## (Engineering)

- Space systems engineering
- Space transportation
- Spacecraft engineering
- Space structure engineering
- Material engineering
- Space Communication engineering
- e.t.c.

## Sights for education



Lecture



Check-out of a sounding rocket



Check-out a scientific payload

## Statistical Data

Number of stuffs  
(2004)

Category	ISAS	ISTS	OSFD	OSA
1	42			
2	26			
3	15			
4	5	7	2	1
Total	88	7	2	1
Research stuff	160	350	250	110

Number of students  
(2004)

Category	ISAS	ISTS	OSFD	OSA
1	20			
2	59			
3	134			
4	5	12	3	1
Total	218	12	3	1
Graduation	87	2	1	0

## Summary

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- JAXA is providing an opportunity for graduate education in many aspects.
- We believe this is quite effective in order to support an academic community which, in turn, is a basis for JAXA and Space community.

## Budget

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- From Sokendai
- From University of Tokyo
- From JAXA

## Expenses

- Research assistant program
- Support for staff
- etc