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### Education & Research Activities

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Message from the President

The Graduate University for Advanced Studies, SOKENDAI was established to cultivate the future generation of doctoral researchers. SOKENDAI offers educational opportunities for graduate students in collaboration with national research institutions known as “inter-university research institutes.” Since its inception in 1988 as the first graduate university in Japan, SOKENDAI has awarded roughly 2,500 doctoral degrees in various fields of fundamental science.

There are 19 inter-university research institutes in Japan that comprise a group of top researchers and offer access to large-scale experimental facilities, cutting-edge research equipment, and valuable research materials. The research facilities and materials at the inter-university research institutes attract scholars from Japan and other countries who engage in collaborative projects with the institute members. These institutes serve as the leading hubs for advancing research across a broad spectrum of disciplines, from humanities to high-energy physics. The most distinctive feature of SOKENDAI is that we offer graduate education at institutions that conduct cutting-edge basic research.

The social landscape surrounding universities has undergone significant transformations in the last two decades, as dramatic advances in ICT have enabled the dissemination of vast amounts of information that transcends constraints such as geographical, generational, gendered, and linguistic boundaries, as well as temporal and spatial dimensions, and have presented a new paradigm for society, one that fuses virtual space and real space. However, considering the current state of affairs, humanity appears to be facing unprecedented challenges. One may find it difficult to envision the future of humanity in the next decade or two.

In light of this, what role should universities fulfill? While the significance of fundamental science and research fostered by universities is widely recognized, the situation in the world is not as straightforward as to assume that the outcomes of intellectual endeavors based on the pure curiosity of individual researchers will contribute to the collective wisdom of humanity and guide society toward a better direction. Given the prevailing uncertainty of our times, the world requires individuals who can be entrusted with its future. A university, as a hub of knowledge, is expected to meet this requirement. Universities must address this expectation as the locus of learning.

SOKENDAI has implemented a major reform of its educational organization and curricula to offer a 20-program system at Graduate Institute for Advanced Studies starting from April 2023. The new curriculum encompasses 20 programs that span a broad spectrum of academic disciplines, such as elementary particles, materials, life, space, information, history, and culture. The curriculum aims to equip students with foundational knowledge and education in their respective fields of specialization while fostering their autonomy and flexibility in conducting research beyond their own domains. The Diploma Policy of SOKENDAI outlines five competencies: “academic expertise”, “creativity”, “broad perspective”, “global competence”, and “research integrity” for doctoral candidates who aspire to become independent researchers who can tackle any challenge with confidence.

SOKENDAI strives to make a significant contribution to society by envisioning the role of academia in advancing human society in the long run. It aims to nurture doctoral students who can excel and innovate in academia that supports the intellectual foundations of society, lead advanced research and development, and generate new intellectual value.

April 1, 2024

Nagata, Takashi Ph.D.
President
The Graduate University for Advanced Studies, SOKENDAI
SOKENDAI has 20 programs in collaboration with the inter-university research institutes (parent institutes) under Graduate Institute for Advanced Studies. This provides an educational environment transcending academic boundaries and flexibly offering the diverse educational resources of the inter-university research institutes. SOKENDAI fosters independent researchers with “Advanced Specialty and Expertise”, “Broad Perspective” and “International Competitiveness” backed by five competencies.

Five Competencies

- **Academic Expertise**: Ability to acquire the knowledge and methodologies available in the academic field and apply them to promote advanced research.
- **Creativity**: Ability to deeply understand phenomena through research, tackle unexplored issues based on free ideas, and create new intellectual value.
- **Broad Perspective**: Ability to work on issues in surrounding areas from a broad perspective and contribute to the progress of a wide range of academic fields, based on one’s own expertise.
- **Global Competence**: Ability to disseminate highly universal academic results based on understanding and collaboration regardless of country, region, language, culture, gender, religion, etc.
- **Research Integrity**: Ability to recognize the social significance and position of academic research and act ethically and responsibly as a researcher.

**Doctoral program**

SOKENDAI offers both five-year and three-year doctoral program.

**Student support**

SOKENDAI financially supports excellent students’ research activities through the Research Assistant System, the Tuition Waiver System, and the SOKENDAI Special Researcher Program.

SOKENDAI supports excellent students who engage in long-term joint research activities in Japan and abroad through the SOKENDAI Student Dispatch Program and the SOKENDAI Dual Degree Program.

For more information, please click the URL: [https://www.soken.ac.jp/en/features/](https://www.soken.ac.jp/en/features/)
SOKENDAI has established the Graduate Institute for Advanced Studies as a basic educational and research organization equivalent to a graduate school. The Graduate Institute for Advanced Studies has 20 programs with a wide variety of specialties, which are developed in the research environment of four Inter-University Research Institute Corporations and Japan Aerospace Exploration Agency. In addition, the University Library, the Research Center for Integrative Evolutionary Science, The Center for Education Planning and Development and The Center for Academic Information Services have been established as university-wide facilities.

### Overview

- **The Graduate Institute for Advanced Studies, SOKENDAI**
- **Research and Education System**

#### Programs
- Anthropological Studies
- Japanese Studies
- Japanese History
- Japanese Literature
- Japanese Language Sciences
- Informatics
- Statistical Science
- Particle and Nuclear Physics
- Accelerator Science
- Astronomical Science
- Fusion Science
- Space and Astronautical Science
- Molecular Science
- Materials Structure Science
- Global Environmental Studies
- Polar Science
- Basic Biology
- Physiological Sciences
- Genetics
- Integrative Evolutionary Science

#### Research institutes
- National Museum of Ethnology
- International Research Center for Japanese Studies
- National Museum of Japanese History
- National Institute of Japanese Literature
- National Institute for Japanese Language and Linguistics
- National Institute of Informatics
- The Institute of Statistical Mathematics
- Institute of Particle and Nuclear Studies
- Accelerator Laboratory / Applied Research Laboratory
- National Astronomical Observatory of Japan
- National Institute for Fusion Science
- Institute of Space and Astronautical Science
- Institute for Molecular Science
- Institute of Materials Structure Science
- Research Institute for Humanity and Nature
- National Institute of Polar Research
- National Institute for Basic Biology
- National Institute for Physiological Sciences
- National Institute of Genetics
- Research Center for Integrative Evolutionary Science

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*National Institutes for the Humanities*
*Research Organization of Information and Systems*
*National Institutes of Natural Sciences*
*Japan Aerospace Exploration Agency*
*High Energy Accelerator Research Organization*
*SOKENDAI Hayama Campus*
Organization

As of April 1, 2024

Overview

The Graduate University for Advanced Studies, SOKENDAI

Administrative Board

President
NAGATA Takashi
Executive Director
YAMAMOTO Satoshi
Executive Director
KURUSHIMA Noriko
Auditor
OKAMURA Sadanori
Auditor
INAGAKI Masato
(Vice President)
YAMAMOTO Satoshi
Vice President
KURUSHIMA Noriko
Executive Officer President's
ARIKAWA Kenjiro
Executive Officer President's
FUJISAWA Hironori
Assistant
MICHIZONO Shinichiro

Graduate Institute for Advanced Studies
Dean, Graduate Institute for Advanced Studies
SAKAKIBARA Satoru
Chair, Anthropological Studies
NIWA Norio
Chair, Japanese Studies
ENOMOTO Wataru
Chair, Japanese History
MIKAMI Yoshitaka
Chair, Japanese Literature
SAITO Maori
Chair, Japanese Language Sciences
MATSUMOTO Yo
Chair, Informatics
TAKEDA Hideaki
Chair, Statistical Science
YOSHIMOTO Atsushi
Chair, Particle and Nuclear Physics
HARA Takanori
Chair, Accelerator Science
KAMITANI Takuya
Chair, Astronomical Science
SEKII Takashi
Chair, Fusion Science
SAKAKIBARA Satoru
Chair, Space and Astronomical Science
YAMADA Toru
Chair, Molecular Science
INO Ryota
Chair, Materials Structure Science
SETO Hideki
Chair, Global Environmental Studies
TAYASU Ichiro
Chair, Polar Science
HIRAWAKE Toru
Chair, Basic Biology
NIMI Teruyuki
Chair, Physiological Sciences
FURUSE Mikio
Chair, Genetics
IWASATO Takaji
Chair, Integrative Evolutionary Science
KUTSUKAKE Nobuyuki

University Library
Director
KURUSHIMA Noriko
Deputy Director
YAGU Shuji

Research Center for Integrative Evolutionary Science
Director
INNAN Hideki

The Center for Education Planning & Development
Director
YAMAMOTO Satoshi

The Center for Academic Information Services
Director
KURUSHIMA Noriko

Administration Bureau
Secretary-General
SATO Akihiro
Manager, General Planning Division
MOCHIZUKI Tsuyoshi
Manager, General Affairs Division
HORUICHI Shinya
Manager, Financial Affairs Division
YAGI Yuichiro
Manager, Academic and Students Affairs Division
UMENO Kenichi

Education and Research Council

President
NAGATA Takashi
Executive Director (Vice President)
YAMAMOTO Satoshi

Executive Director
KURUSHIMA Noriko
Chair, Graduate Institute for Advanced Studies
SAKAKIBARA Satoru
Chair, Anthropological Studies
NIWA Norio
Chair, Japanese Studies
ENOMOTO Wataru
Chair, Japanese History
MIKAMI Yoshitaka
Chair, Japanese Literature
SAITO Maori
Chair, Japanese Language Sciences
MATSUMOTO Yo
Chair, Informatics
TAKEDA Hideaki
Chair, Statistical Science
YOSHIMOTO Atsushi
Chair, Particle and Nuclear Physics
HARA Takanori
Chair, Accelerator Science
KAMITANI Takuya
Chair, Astronomical Science
SEKII Takashi
Chair, Space and Astronomical Science
YAMADA Toru
Chair, Molecular Science
INO Ryota
Chair, Materials Structure Science
SETO Hideki
Chair, Global Environmental Studies
TAYASU Ichiro
Chair, Polar Science
HIRAWAKE Toru
Chair, Basic Biology
NIMI Teruyuki
Chair, Physiological Sciences
FURUSE Mikio
Chair, Genetics
IWASATO Takaji
Chair, Integrative Evolutionary Science
KUTSUKAKE Nobuyuki

Directors

President
NAGATA Takashi
Executive Director (Vice President)
YAMAMOTO Satoshi
Executive Director (Vice President)
KURUSHIMA Noriko
Professor, Program of Japanese Literature
WATANABE Yasuaki
Professor, Program of Molecular Science
WATANABE Yoshinato
Professor, Program of Particle and Nuclear Physics
SAITO Naohito
Professor, Program of Genetics
HANAOKA Fumio
Director-General, High Energy Accelerator
ASAI Shoji
Outside Director, East Japan Railway Company
AMANO Reiko
President, Eikei University of Hiroshima
ARINOBU Mutsuo
President, Hanzan University
ISODA Fumio
President, Academy of Letter, Konan University
INOSE Kumi
President, National Institutes of Natural Sciences
KAWAI Maki
President, Research Organization of Information and Systems
KITSUREGAWA Masaru
President, National Institutes for the Humanities
KIBE Nobuko
Senior Corporate Adviser, Mitsubishi Estate Co., Ltd.
KIMURA Keiji
Executive Director, Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency
KUNINAKA Hitoshi
Representative Director & President,
Sumika Technical Information Service, Inc.
SEKINE Chizu
President, Akita Prefectural University
FUKUDA Hiroo
President, Akita International University
MONTE Cassim
President, Japan Agency for Marine-Earth Science and Technology
YAMATO Hirohiko
Inter-University Research Institutes participating in SOKENDAI

National Institutes of Natural Sciences
Institute for Molecular Science

Molecular Science
38 Nishigongenaka, Myodaiji, Okazaki,
444-8565 Japan
TEL: +81-564-55-7000
URL: https://www.nims.ac.jp/en/

National Institutes of Natural Sciences
National Institute for Basic Biology

Basic Biology
38 Nishigongenaka, Myodaiji, Okazaki,
444-8565 Japan
TEL: +81-564-55-7000
URL: https://www.nibb.ac.jp/en/

National Institutes of Natural Sciences
National Institute for Physiological Sciences

Physiological Sciences
38 Nishigongenaka, Myodaiji, Okazaki,
444-8565 Japan
TEL: +81-564-55-7000
URL: https://www.nips.ac.jp/en/

National Institutes of Natural Sciences
National Astronomical Observatory of Japan

Astronomical Science
2-21-1 Osawa, Mitaka, Tokyo, 181-8588 Japan
TEL: +81-422-34-3600
URL: https://www.naoj.org/en/

NAOJ Mizusawa campus
2-12 Hoshigaoka, Mizusawa, Oshu, Iwate,
023-0861 Japan
TEL: +81-947-22-7111

Nobeyama Radio Observatory
462-2 Nobeyama, Minamimishima,
Nagano, 384-1305 Japan
TEL: +81-267-98-4300

Subaru Telescope
650 North A'ohoku Place, Hilo, Hawaii 96720
U.S.A.
TEL: +1-808-934-7788

NAOJ Chile Observatory
Los Abledules 3085, Oficina 701, Vitacura,
Santiago, Chile
TEL: +56-2-2656-9253

National Institutes of Natural Sciences
Institute for Fusion Science

Fusion Science
322-4, Oroshi-cho, Toki, Gifu, 509-5292 Japan
TEL: +81-572-58-2232 or 2042
URL: https://www.nifs.ac.jp/en/

Japan Aerospace Exploration Agency
Institute of Space and Astronautical Science

Space and Astronautical Science
3-1-1, Yoshinodai, Chuo-ku, Sagamihara,
Kanagawa, 252-5210 Japan
TEL: +81-42-753-8012
URL: https://www.isas.jaxa.jp/en/

High Energy Accelerator Research Organization Tsukuba Campus

Accelerator Laboratory - Applied Research Laboratory
Accelerator Science
https://www2.kek.jp/access/eng/
https://www2.kek.jp/acr/en/home-eng/

Institute of Materials Structure Science
Materials Structure Science
https://www2.kek.jp/imss/eng/

Institute of Particle and Nuclear Studies
Particle and Nuclear Physics
https://www2.kek.jp/pps/eng/

1-1 Ohno, Tsukuba, Ibaraki, 305-0001 Japan
TEL: +81-29-864-1171 or 5128
URL: http://www.kek.jp/

Tokai Campus
203-1 Shirakata, Tokai, Ibaraki,
319-1106, Japan

Research Organization of Information and Systems
The Institute of Statistical Mathematics

Statistical Science
10-3 Midori-cho, Tachikawa, Tokyo,
190-8562 Japan
TEL: +81-50-5533-8500
URL: https://www.ism.ac.jp/index_e.html

Research Organization of Information and Systems
National Institute of Polar Research

Polar Science
10-3 Midori-cho, Tachikawa, Tokyo,
190-8562 Japan
TEL: +81-42-512-0612
URL: https://www.nipr.ac.jp/

Syowa Station (Antarctica)

Research Organization of Information and Systems
National Institute of Informatics

Informatics
2-1-2 Hontobashi, Chiyoda-ku, Tokyo,
101-8430 Japan
TEL: +81-3-4212-2110
URL: https://www.nii.ac.jp/en/

National Institute of Informatics

Genetics
1111 Yata, Mishima, Shizuoka, 411-8540 Japan
TEL: +81-55-961-6720
URL: https://www.nii.ac.jp/
History

1982

The Graduate University for Advanced Studies, SOKENDAI

School of Mathematical and Physical Science

Department of Statistical Science
Department of Accelerator Science
Department of Synchrotron Radiation Science
Department of Structural Molecular Science
Department of Functional Molecular Science

School of Life Science

Department of Genetics
Department of Molecular Biomechanics
Department of Physiological Science

 establishment of the Graduate University for Advanced Studies

The Graduate University for Advanced Studies is inaugurated. The Committee for Preparation of the Establishment of the Graduate University for Advanced Studies is established at Okazaki National Research Institute.

The Committee for the Investigation of the Preparation of the Establishment of a Postgraduate School for Advanced Studies produces a summary of the basic concepts of a postgraduate school for advanced studies.

An Office and Committee for Preparation of the Establishment of a Postgraduate School for Advanced Studies are established at Okazaki National Research Institute.

The Committee for Preparation of the Establishment of a Postgraduate School for Advanced Studies produces an interim summary on the preparation of the establishment of a tentatively named Graduate University for Advanced Studies.

School of Cultural and Social Studies

The Committee for Preparation of the Establishment of the Graduate University for Advanced Studies is established at the Tokyo Institute of Technology (Nagatsuda Campus).

The Graduate University for Advanced Studies is inaugurated. The central administration office is established at the Tokyo Institute of Technology (Nagatsuda Campus).

SOKENDAI, hangs the SOKENDAI sign in a rented room at the Tokyo Institute of Technology’s Nagatsuda campus.

The School of Cultural and Social Studies is established with the Department of Japanese Literature, the Department of Comparative Studies, and the Department of Modern Culture.

Dr. Eizi Hirota is appointed as the first Vice President of the University.

The Department of Polar Science (School of Mathematical and Physical Science) is established; matriculation begins.

The University commences matriculation of students for the three schools.

Dr. Eizi Hirota is appointed as the second Vice President. Dr. Kazuo Moriwaki is appointed as the third Vice President. The Department of Medical Biomechanics changes its name to “The Department of Materials Structure Science”.

Dr. Keiichi Kodaira is appointed as the third President. Dr. Naoyuki Takahata is appointed as the third Vice President. The Department of Polar Science (School of Mathematical and Physical Science) is reformed into three schools: the School of Physical Science, the School of Cultural and Social Studies, and the School of Advanced Sciences.

The Department of European and International Studies is established.

The Department of Astronomical Science and the Department of Photo Science (providing three-year doctoral programs), matriculation begins.

Establishment of a Postgraduate School for Advanced Studies

Dr. Yasunobu Okada has been appointed as the fifth President. “The National University Corporation Law (Law No. 112 of 2003)” is enacted.

Land in Hayama, Kanagawa (27,000m²), is donated by Mitsui Fudosan Ltd. to allow the construction of the University’s central administration office, as a result of the mediation services of the Kanagawa prefectural government.

Construction of the central administration office (4,205m²) begins at the Hayama Campus. The Information Center for Research and Education is established.

Administrative functions are transferred from Nagatsuda Campus to Hayama; construction is completed on the central administration building.

Dr. Eizi Hirota is appointed as the second President. Dr. Kazuo Moriwaki is appointed as the second Vice President.

The School of Advanced Sciences, with the Department of Biosystems Science, is established at the Hayama Campus (matriculation begins in April 1989).

The Department of Photoscience (School of Advanced Sciences) is established (matriculation begins in April 1999). The Department of Astronomy and Space Science is established.

The Department of Synchrotron Radiation Science changes its name to “The Department of Materials Structure Science”.

Construction of the School of Advanced Sciences building for research (3,085m²), begins at the Hayama Campus.

The School of Cultural Studies changes its name to “The School of Cultural and Social Studies”. The Department of Japanese History is established in the School of Cultural and Social Studies, and The Department of Particle and Nuclear Physics is established in the School of Mathematical and Physical Science; matriculation begins in both new departments. The School of Advanced Sciences commences matriculation.

Construction completed on the research building for the School of Advanced Sciences.
Overview

Department of Accelerator Science
Department of Statistical Science
School of Mathematical and physical Science

Scommences matriculation.

Department of Particle and Nuclear Physics is established in the
Cultural and Social Studies." The Department of Japanese History is

The School of Cultural Studies changes its name to "The School of

Materials Structure Science".

Synchrotron Radiation Science changes its name to "The Department

of Photoscience (School of Advanced Sciences) is

established.

Prefectural government.

Construction completed on the research building for the School of

Advanced Sciences (School of Mathematical and Physical Science) are

The Coordination Center for Research and Education is established.

Postgraduate School for Advanced Studies are established at

Okazaki National Research Institutes.

The result of an investigation by a working group set up to investigate

concepts of a postgraduate school for advanced studies based on

post-graduate courses in the institutes.

An informal committee of the directors general of international

history

1982

President

Dr.Yasunobu Okada has been appointed as the fifth President.

1988 to Mar.1995

Saburo, Nagakura (DSc)

Dr. Naoyuki Takahata has been appointed as the fourth President.


Eizi, Hirota (DSc)

The name of the Department of Molecular Biomechanics at the School

of Life Science has changed to the Department of Basic Biology.


Keiichi, Kodaira (DSc)

The School of Physical Sciences, the School of High Energy Accelerator

Science, and the School of Multidisciplinary Sciences have

implemented the five-year doctoral program system. The Schools have

begun to accept students.


Naoyuki, Takahata (DSc)

The name of Hayama Center for Advanced Studies has changed to the

Center for the Promotion of Integrated Sciences.

Apr.2014 to Mar.2017

Yasunobu, Okada (MB)

Construction of the Center for the Promotion of Integrated Sciences

(1.033m2) begins at the Hayama Campus.

Apr.2017 to Mar.2023

Mariko, Hasegawa (DSc)

Information Services and Technology Center is established.

Apr.2023 to present

Takashi, Nagata (DSc)

Library construction completed.

April 2002

February 2002

April

The Department of Informatics established in the School of
Mathematical and Physical Science; matriculation begins.

April 2003

The Department of Japanese Literature (School of Cultural and Social
Studies), and the Department of Space and Astronautical Science
(School of Mathematical and Physical Science) are established;
matriculation begins.

October

"The National University Corporation Law (Law No. 112 of 2003)" is
promulgated and enforced.

April 2004

Reformation into the National University Corporation, Graduate
University for Advanced Studies Dr. Sc. Keiichi Kodaira is reappointed
as the President of the University. The School of Mathematical and
Physical Science is reformed into three schools: the School of Physical
Science (including the departments of Structural Molecular Science,
Functional Molecular Science, Astronomical Science, Fusion Science
and Space and Astronautical Science), the School of High Energy
Accelerator Science (including the departments of Accelerator Science,
Materials Structure Science, Particle and Nuclear Physics), and the
School of Multidisciplinary Science (including the departments of
Statistical Science, Polar Science and Informatics). The School of Life
Science has reformed a three-year doctoral program into a five-year
doctoral program.

April 2005

The name of the Department of Molecular Biomechanics at the School
of Life Science has changed to the Department of Basic Biology.

April 2006

The School of Physical Sciences, the School of High Energy Accelerator
Science, and the School of Multidisciplinary Sciences have
implemented the five-year doctoral program system. The Schools have
begun to accept students.

April 2007

The School of Advanced Sciences is reorganized to establish the
Department of Evolutionary Studies of Biosystems (providing a five-year
doctoral program), in stead of its two existing departments, the
Department of Biosystems Science and the Department of Photo
Science (providing three-year doctoral programs), matriculation begins.

April 2008

Dr. Naoyuki Takahata has been appointed as the fourth President.

April 2009

The Department of Cyber Society and Culture has stopped accepting
new students.

March 2010

Construction of the Center for the Promotion of Integrated Sciences
(1.033m2) begins at the Hayama Campus.

April

The name of Hayama Center for Advanced Studies has changed to the
Center for the Promotion of Integrated Sciences.

January 2011

Construction of the Center for the Promotion of Integrated Sciences is
completed.

April 2013

Information Services and Technology Center is established.

April 2014

Dr.Yasunobu Okada has been appointed as the fifth President.

July 2015

The Center for Academic Information Services is established by
unification of the University Library and the Information Services and
Technology Center.

March 2017

Department of Cyber Society and Culture abolished.
(Dept. operation period from 2001.4.1 to 2017.3.31)

April

Dr. Mariko Hasegawa has been appointed as the sixth President.

March 2018

The Center for Educational Development is established.

April

The Center for the Promotion of Integrated Sciences is abolished.

SOKENDAI Tokyo Branch is established (Minato-ku, Tokyo)

March 2022

Tokyo branch abolished.

Research Center for Integrative Evolutionary Science is established.

April 2023

Dr Takashi Nagata has been appointed as the seventh President.

Graduate Institute for Advanced Studies is established, matriculation begins.

The Center for Educational Development is reorganized to establish The
Center for Educational Planning Development.

School of Cultural and Social Studies, School of Physical Science,
School of High Energy Accelerator Science, School of Multidisciplinary
Science, School of Life Sciences, School of Advanced Sciences
abolished.
Anthropological Studies

National Museum of Ethnology
National Institutes for the Humanities

Program Outline
Three-year doctoral program
Doctor of philosophy

A distinctive feature of the program is the production of a doctoral thesis with an ethnographic description based on fieldwork, irrespective of the region or theme under research. We want students to be generalists with knowledge of a wide range of cultural phenomena, as well as specialists in a particular region or theme. To this end, students can make use not only of the program’s lectures and seminars but also of the museum’s resources, research projects, academic conferences, exhibitions, and lectures for general visitors, performances, and film shows.

The Anthropological Studies Program is offered by National Museum of Ethnology. Students will conduct research on the diverse cultures of humankind in various parts of the world from prehistoric times to the present. From the perspective of cultural anthropology, ethnology, and related fields, student will be instructed in ethnographic research that describes and analyzes specific cultures and in cross-cultural research that compares cultures from specific perspectives. The goal is for students to complete their dissertation by utilizing data obtained through field research as well as specimens, audio-visual materials, and literature of the National Museum of Ethnology.

This program consists only of a three-year doctoral program for students who have obtained a master’s degree or those who are recognized as having equivalent to master’s degree or higher academic ability. Students will study at the National Museum of Ethnology, located in Suita City, Osaka.

Career Options for Graduates in this Program

- Researchers at universities and research institutes, museums and other institutions of higher education in cultural anthropology.
- Past graduates of the program have been employed by Osaka University, Ritsumeikan University, Tokyo University of Foreign Studies, etc.
This program provides education and research on Japanese culture from a global perspective, to promote international and interdisciplinary Japanese studies across the humanities, social sciences, and natural sciences. The goal is to foster researchers in Japan and abroad who will lead the next generation of global Japanese studies. The program will cultivate an interdisciplinary spirit that deals with cross-cutting issues, multifaceted perspectives, a wide range of interdisciplinarity, and a high level of international reach and originality. The program offers only a three-year doctoral program for students who have obtained a master’s degree. Doctoral candidates who belong to this program will study and conduct research at the International Research Center for Japanese Studies, located in Kyoto, Kyoto Prefecture.

Those who enroll in this course can gain research abilities with broad perspectives, under the guidance of multiple instructors, not merely their supervisor. Each instructor is an expert in their field, can manage various research fields in a cross-sectional manner. With such a favorable international and interdisciplinary environment, we consider it the mission of this course to cultivate researchers who will play an active role in both domestic and international academic societies in the future. We welcome applicants who aspire to undertake innovative research with a global perspective.

Program Outline
Three-year doctoral program
Doctor of philosophy

Career Options for Graduates in this Program

- Researchers in humanities, social sciences, and natural sciences at national level research institutes or private companies; faculty members in humanities, social sciences, and natural sciences departments at universities; researchers conducting cutting-edge project-based research at private companies
- Specialized historians at universities and research institutes; or faculty engaged in education and research on Japanese and regional cultures at universities and other institutions of higher education; researchers and curators at museums, etc.
- Researchers in the private and public sectors in the fields of humanities, social sciences, natural sciences, etc.

Library of the International Research Center for Japanese Studies
International symposium offering graduate students an opportunity to present their research
Graduate student project presentation meeting organized by the students themselves
Japanese ceremonies: wedding and funeral
Kanei gyoukou zukan (The Illustrated Record of Emperor Go-mizuno-o’s Formal Visit to Nijo Castle)
Miyako nenju gyoji gajo [Picture Album of Annual Festivals in Miyako]
The Japanese History Program, based at the National Museum of Japanese History (Rekihaku), allows students to pursue historical research using a variety of approaches, including history, archaeology, folklore, art history, informatics, and analytical science. One of the main features of this program is that students can conduct practical research using the vast historical and cultural materials in Rekihaku’s collection and the latest analytical equipment. We also aim to collaborate with 19 other programs of SOKENDAI, covering various academic fields in the humanities and sciences. We welcome all students who are engaged in the study of history from a wide range of interests.

This program aims to nurture researchers who can conduct advanced and cutting-edge research in the Japanese history field in the broad sense of the term, with a specialized, international, and interdisciplinary perspective, and who can contribute to society through their advanced research skills and expertise.

This program consists of a three-year doctoral program for students who have obtained a master’s degree.

Students in this program will study and conduct research activities at the National Museum of Japanese History, located in Sakura City, Chiba Prefecture. With full use of the museum’s vast collection and state-of-the-art analytical techniques, the student’s doctoral dissertation will have fruition in the highest level of material-based research.

Career Opportunities:
- Researchers for specialized fields such as history, folklore, and archaeology at universities and research institutes; researchers and curators for museums; etc.
In this course, under the guidance of multiple faculty members, students can acquire the skills and research capabilities to work with primary sources related to Japanese literature from various perspectives. The National Institute of Japanese Literature’s extensive collection of Japanese classical and modern texts, documents, and image resources, along with its domestic and international research network, serves as a superb research resource. Additionally, there are opportunities to engage in cutting-edge research projects. We look forward to welcoming those eager to pursue original research in Japanese literature and who value their intellectual curiosity.

Chair
SAITO Maori

This program, with the National Institute of Japanese Literature as its parent institute, fosters students to become leaders in the new development of Japanese literature. Specifically, this program aims to enable students to acquire specialized research techniques and comprehensive analytical skills and knowledge by focusing on primary sources as research subjects, mainly literature, among cultural resources. The program fosters logical thinking and writing skills, creative and interdisciplinary perspectives, as well as the ability to tackle issues in peripheral fields, to nurture researchers with a broad perspective who can tackle issues in surrounding fields and play an active role both domestically and internationally.

This program consists of only the doctoral program, and students in this program will study and conduct research activities at the National Institute of Japanese Literature, National Institutes for the Humanities, located in Tachikawa City, Tokyo.

Career Options for Graduates in this Program

- Career Opportunities:
  Specialized researchers of Japanese literature at universities and research institutions, faculty members engaged in education and research of Japanese literature at universities and other institutions of higher education, curators at art galleries and museums, etc.
The Japanese Language Sciences program aims to foster the future generation of researchers who can analyze the Japanese language objectively and quantitatively based on data, utilizing the linguistic resources and research network accumulated by the National Institute for Japanese Language and Linguistics. The program will cultivate the ability and skills of students to conduct linguistic analysis using new methods, such as theoretical investigations, experiments, fieldwork, social surveys, and computer simulations, in addition to conventional analytical methods. This program is a three-year doctoral program for students who have obtained a master’s degree. Students in this program will study and conduct research activities at the National Institute for Japanese Language and Linguistics, located in Tachikawa City, Tokyo.

Possible career paths for graduates:

i) University faculty members and researchers who conduct research using Japanese language information processing and data science in the fields of Japanese language studies and Japanese language education;

ii) Data scientists and natural language processing engineers who are active in the information processing industry using their linguistic expertise;

iii) Curators, archivists, and local government officials with linguistic expertise;

iv) Researchers and educators who teach the Japanese language in Japan and abroad;

v) Developers of digital teaching materials related to Japanese language for native speakers and Japanese as a foreign language.

Career Options for Graduates in this Program

National Institute for Japanese Language and Linguistics
10-2 Midori-cho, Tachikawa City, Tokyo, 190-8561
https://www.ninjal.ac.jp/english/
Informatics
National Institute of Informatics
Research Organization of Information and Systems

TAKEDA
Hideaki

Informatics is a comprehensive academic field including computer sciences, information engineering, artificial intelligence, and mathematics—which are necessary for data scientists. In addition, it includes humane and social informatics, which focus on humans and their society.

This program aims to nurture outstanding researchers and highly skilled professionals by conducting research and education in the various phases of basic, applied, and practical informatics, and train and develop leaders who are able to hold international leadership.

The informatics program aims to nurture researchers who will make new, cutting-edge contributions to the field of informatics, an interdisciplinary field that crosses a wide range of disciplines from information science and information engineering to humanities and social informatics, for the further development of the information society.

This program has a five-year doctoral program for bachelor’s degree holders and a three-year doctoral program for master’s degree holders. Students enrolled in this program conduct academic and research activities at the National Institute of Informatics, located in Chiyoda-ku, Tokyo.

Program Outline
Five-year doctoral program / Three-year doctoral program
Doctor of philosophy

Chair

Career Options for Graduates in this Program

- Researchers and engineers engaged in the field of informatics (basic theory and application of information technology (IT), basic and applied AI and data sciences, etc.) at domestic and overseas universities, public research institutions, and private companies
- Faculty in the department of informatics at universities and other institutions
- Researchers and engineers who can conduct project-based research on informatics at companies and universities

Socializing in the 16th floor lounge
Poster Exhibition at an Open House
High-performance cloud for in-house research

National Institute of Informatics
2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo, 101-8430 Japan
https://www.nii.ac.jp/en/
The Institute of Statistical Mathematics provides an environment that allows smooth access to cutting-edge research. This environment enables graduate students to come into contact with cutting-edge research easily. Various research projects are in progress, and graduate students can participate in any that interest them. The graduate students are guided by primary supervisors and sub-supervisors, and various courses are offered to help the graduate students acquire basic skills. The Statistical Science program is considered the best environment in Japan for studying and researching statistical science.

To realize the extraction of information and knowledge from real-world data, this program conducts education and research related to data collection design, modeling, inference and prediction, as well as their fundamentals in mathematics and practical application. The program aims to develop researchers who are equipped with creative research skills that contribute to solving various intricately intertwined important issues.

This program consists of two programs: a five-year doctoral program for bachelor’s degree students and a three-year doctoral program for master’s degree students. Students enrolled in this program will conduct academic and research activities at the Institute of Statistical Mathematics, located in Tachikawa city, Tokyo.

<table>
<thead>
<tr>
<th>Career Options for Graduates in this Program</th>
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</thead>
<tbody>
<tr>
<td>Local and foreign universities, national and corporate research institutes, private companies (e.g., IT, manufacturing, financial, and pharmaceutical companies), etc.</td>
</tr>
</tbody>
</table>

The Institute of Statistical Science

YOSHIMOTO
Atsushi

Chair

10-3 Midori-cho, Tachikawa, Tokyo, 190-8562 Japan
https://www.ism.ac.jp/index_e.html

Library of the Institute of Statistical Mathematics

Kernel method
KEK has been playing a central role in exploring the frontiers of particle and nuclear physics as one of the leading research institutes in the world such as CERN in Europe. SOKENDAI students belong to either theoretical or experimental group in KEK and are involved in a cutting-edge research project, which enables them to acquire all the skills and capabilities required to become a researcher by the time they get Ph.D. There are indeed many people who are already working worldwide after finishing the program. We welcome all the students who wish to become a researcher in this extraordinary environment for research and education.

Chair

HARA
Takanori

We aim to foster the next generation of researchers who will explore the origin and structure of the universe. They will study how the universe works at the very smallest and largest levels—exploring elementary particles and atomic nuclei, alongside options to study cosmology and other related fields. We will give researchers a broad perspective and high level of expertise, which will allow them to actively contribute to the future of research across many interrelated fields of science.

We offer two programs: a five-year doctoral program for students with a bachelor’s degree and a three-year doctoral program for students with a master’s degree. Students will belong to either the Theoretical Research Group or the Experimental Research Group of the Institute of Particle and Nuclear Studies (IPNS) at the High Energy Accelerator Research Organization (KEK). They will conduct their studies and research activities at KEK’s Tsukuba Campus, Tokai Campus, the Wako Nuclear Science Center, or at experimental facilities located worldwide.

Career Options for Graduates in this Program

Career Opportunities: Researchers and university faculty members in particle physics, nuclear physics, cosmology and related fields; researchers and engineers who carry out cutting-edge project-based research at companies and national laboratories; and researchers and engineers in the private and public sectors in the fields of nuclear power, radiation, information processing, electricity, electronics, and communications.

Institute of Particle and Nuclear Studies

1-1 Oho, Tsukuba, Ibaraki, 305-0801 Japan
https://www2.kek.jp/ipns/en/
High-energy accelerators are large experimental machines for the cutting-edge research on the various components in each level of nature, from elementary particles and atomic nuclei to molecules consisting of matter including life. In recent years, accelerator science has made remarkable progress in applications that directly benefit society, such as industry and medicine. It is a complex science that consists of essence of the most advanced science and technology for the fundamental research and development of accelerators. Students in the accelerator science program acquire practical knowledge of accelerator science and conduct research from both theoretical and experimental perspectives. They can choose to study and conduct research also in the fields of radiation science, computer science, superconducting cryogenics, and mechanical engineering, which support accelerator science. Students in this program aim to become researchers who will be responsible for the future of accelerator science and contribute to promoting natural science through accelerator science. This program consists of two programs: a five-year doctoral program for bachelor’s degree holders and a three-year doctoral program for master’s degree holders. Students will study and conduct research at the Accelerator Laboratory and Applied Research Laboratory of the High Energy Accelerator Research Organization (KEK), which has two large campuses in Tsukuba City and Tokai Village, Ibaraki Prefecture.
Astronomical Science

National Astronomical Observatory of Japan
National Institutes of Natural Sciences

Program Outline
Five-year doctoral program / Three-year doctoral program
Doctor of philosophy

Chair

SEKII
Takashi

Astronomical Science Program offers advanced education and research through a wide range of observational and theoretical studies with state-of-the-art optical-infrared and radio telescopes. This program covers the development and application of advanced new technologies fundamental to astronomical observation; the design, fabrication, and experimentation of new observational instruments; the development of data acquisition and analysis methods; the development of technologies ranging from basic to advanced observational astronomy; as well as observational research using these technologies and theoretical research using supercomputers.

The program offers a five-year doctoral program for bachelor’s degree holders and a three-year doctoral program for master’s degree holders. Graduate students enrolled in the program will conduct their studies and research activities at the National Astronomical Observatory of Japan (NAOJ), based in Mitaka City, Tokyo.

Career Options for Graduates in this Program

- Research and education staff in astronomical sciences and related fields at universities and research institutes in Japan and abroad; engineers at private companies; and science communicators

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ALMA ©X-CAM/ALMA (ESO/NAOJ/NRAO)

ATERUI II, a supercomputer for astronomy

National Astronomical Observatory
2-21-1 Osawa, Mitaka, Tokyo, 181-8588 Japan
https://www.nao.ac.jp/en/
The Fusion Science Program seeks students who are actively engaged in unexplored research subjects such as understanding of plasma physics, development of measurement devices, control technology, development and research of materials with excellent heat and radiation resistance required for reactors, and superconductivity technology, in order to realize a fusion reactor at an early date. Our goal is to develop general engineers who can be applied to any research field by honing their own skills with fusion science research as their axis. We look forward to your challenge.

The Fusion Science program fosters integrated science and engineering scholars who have a systematic understanding of the wide range of science and engineering fields required for the early realization of fusion reactors and who are capable of working in a variety of research fields. By conducting advanced research (experimental, theoretical, etc.), rationally understanding research results, and taking on unexplored research challenges, our students acquire new technologies and skills with high value and contribute to the realization of fusion energy and other human developments. This program consists of a five-year doctoral program for bachelor’s degree holder and a three-year doctoral program for master’s degree holder. Students will conduct their studies and research activities at the National Institute for Fusion Science (NIFS), located in Toki City, Gifu Prefecture.

Career Options for Graduates in this Program

- Career Opportunities for Graduates
  Engineers and researchers in fusion and related fields at national laboratories; faculty members in fusion studies (plasma experiments, theory, materials engineering, superconducting engineering, etc.) at universities; engineers and researchers who carry out cutting-edge project-based research at companies; etc.

National Institute for Fusion Science
322-6, Oroshi-cho, Toki, Gifu, 509-5292 Japan
https://www.nifs.ac.jp/en/
The Space and Astronautical Science Program leverages the collaboration with Institute of Space and Astronautical Science, JAXA, to provide advanced education and research guidance by researchers who are actively involved in conducting research and projects at the forefront of space science. We encourage students to delve into learning and researching new fields of science and engineering in the vast expanse of space utilizing various means such as space telescopes and experiments, spacecraft for scientific exploration of the solar system, nano-satellites, balloon experiments, rockets. We look forward to the aspirations of motivated students who wish to contribute to the future of space science research and development, as well as the future utilization of space.

Chair

YAMADA
Toru

The Space and Astronautical Science Program provides advanced education and research guidance through theoretical research, analysis of observational data, and practical research and development in astrophysics, solar system science, and space engineering. The program fosters researchers with a broad perspective and internationally advanced abilities, as well as individuals who contribute to society with advanced expertise. In particular, through close contact with cutting-edge, large-scale space projects, the program cultivates not only a rich academic background in space science but also the ability to plan space projects. This program consists of two programs: a five-year doctoral program for bachelor’s degree holder and a three-year doctoral program for master’s degree holder. Students will conduct their studies and research activities at the Institute of Space and Astronautical Science (ISAS) located in Sagamihara, Kanagawa Prefecture.

Career Options for Graduates in this Program

- Researchers in the field of space science (astrophysics, solar system science, space engineering) at universities, national laboratories, etc.; engineers and researchers in space development and related fields at private companies and national laboratories; engineers who carry out cutting-edge project-based research at private and public companies, etc.
Molecular Science

Institute for Molecular Science
National Institutes of Natural Sciences

Chair
IINO
Ryota

Molecular science covers a wide range of natural sciences such as chemistry, physics, and life sciences. In this course, students will learn under the careful guidance of faculty members who are researchers in the above fields and their interdisciplinary areas, and will promote research using facilities and equipment not available at ordinary universities. Research keywords include quantum technology, spectroscopy, imaging, superconductivity, chirality, spin, topology, material conversion, energy conversion, catalysis, enzymes, proteins, etc. We welcome your enrollment.

The Molecular Science Program establishes a systematic understanding of molecules, the basic building blocks of matter, and trains the next generation of researchers to unravel the wide variety of phenomena exhibited by matter. We aim to produce graduates who can conduct advanced research (e.g., experiments, measurements, theory), rationally understand research results, challenge unexplored issues from free inspiration, pursue new intellectual values and universal truths, and contribute to human development based on molecular science. This program consists of two programs: a five-year doctoral program for bachelor’s degree holders and a three-year doctoral program for master’s degree holders. Students will conduct their studies and research activities at the National Institute for Molecular Science, located in Okazaki, Aichi Prefecture.

Career Options for Graduates in this Program

Career Opportunities for Graduates:
Researchers and faculty members in the field of molecular science at universities and national and public research institutes; Researchers and engineers who pursue advanced research challenges through public research projects and in private research institutes.
In The Materials Structure Science Program, cutting-edge scientific research is conducted using quantum beams such as synchrotron radiation, neutrons, muons, and slow positrons obtained from large accelerators. In this context, the program fosters researchers who will lead sciences and technologies on the structure and function of materials in a wide range of research fields. Graduates of the program are expected to become not only core researchers at domestic or overseas quantum beam facilities, but also power users who promote research using quantum beams.

The Materials Structure Science program conducts cutting-edge scientific research using quantum beams, such as synchrotron radiation, neutrons, muons, and slow positrons obtained from advanced accelerators. In this program, we train researchers who will pioneer fundamental and cutting-edge research to elucidate the structure and function of materials in an extremely wide range of research fields, including physics and chemistry, materials science, life science, medicine, environmental science, and earth science. By promoting research on further advancement of quantum beam generation and utilization technologies, this program aims to produce PhDs who will contribute to the development of a new frontier in materials structure science.

We offer two programs: a five-year doctoral program accepting bachelor’s degree holders and a three-year doctoral program accepting master’s degree holders. Students will conduct their studies and research activities at the High Energy Accelerator Research Organization (KEK) Institute of Materials Structure Science, located in Tsukuba and Tokai, Ibaraki Prefecture.

Career Opportunities:
Engineers and researchers at domestic and overseas quantum beam facilities; faculty members and researchers in material sciences and life sciences departments at universities and public research institutions; engineers and researchers who carry out and lead cutting-edge project-based research at public and private companies.
Global Environmental Studies

Research Institute for Humanity and Nature
National Institutes for the Humanities

Program Outline
Three-year doctoral program
Doctor of philosophy

Chair
TAYASU Ichiro

The Program in Global Environmental Studies is newly established in SOKENDAI in FY2023. RIHN offers a range of unique opportunities in global environmental research, including making use of RIHN’s interdisciplinary research projects and the related expertise of individual faculty members. We look forward to meeting applicants who strive to promote unique research perspectives, and who will benefit from the wide range of lectures and seminars in Global Environmental Studies offered at RIHN.

The Global Environmental Studies Program is based on international research projects promoted by the Research Institute for Humanity and Nature (RIHN). This interdisciplinary research with elements of transdisciplinarity utilizes a problem-solving approach in collaboration with society. The program is designed for students to gain knowledge and methodologies accumulated in the academic fields that constitute Global Environmental Studies and to become independent researchers who will engage in solving global environmental issues with their expertise. The program provides small-group education and research training in an environment conductive for cutting-edge research. This program offers a three-year doctoral program for students who have obtained a master’s degree. Students in this program will study and conduct research at the Research Institute for Humanity and Nature (RIHN) in Kyoto.

Career Options for Graduates in this Program
- Career Opportunities for Graduates
- Faculties engaged in education and research on environmental studies at universities and other institutions of higher education.
- Engineers, researchers, and support staff in environment related fields at companies, government offices, national and public research institutes, local governments, international organizations, and NGOs.
- Researchers and curators at museums and other institutions.

Graduate interns and RIHN researchers discussing field work results (FairFrontiers Project, implementation period: FY2020–2025)

Towards sustainable use of nitrogen (Sustai-N-able Project, FY2022–2027)

Project laboratory which reflects a research environment that allows for debates and mutually inspiring interactions without being bound by traditional laboratory setting

TD training course co-hosted by RIHN and the Future Earth Asia Regional Center (TERRA School 2019)

One of the best analytical research environments for stable isotope analysis in Japan

“Mizu-no-wa Classroom” in Yaese Town, Okinawa. Springwater survey with local children (LINKAGE project, implementation period: FY2022–2026)

Research Institute for Humanity and Nature
457-4 Motoyama, Kita-Ku, Kyoto, 603-8047
https://www.chikyu.ac.jp/rihn/education/public_E/
The Polar Science Program conducts education and research focused on natural phenomena occurring in the regions of the North and South Poles, embracing a view of the Earth as a global-scale environment. Through these activities, we strive to cultivate outstanding researchers equipped with advanced research and the ability to work as “field scientists”. The program welcomes students with the desire to take up the emerging challenges of polar science in a new era.

The Polar Science Program aims to nurture outstanding researchers equipped with advanced research capabilities in space and planetary science, solar-terrestrial physics, meteorology, glaciology, atmospheric science, oceanography, geoscience, solid earth science, bioscience, and related fields, to explore universal principles and laws that govern various natural and physical phenomena in the polar regions and high mountains. The program also expects students to elucidate the role of polar regions in the global environmental changes and the earth and planetary systems, as well as the geological and natural history of polar regions.

We offer two programs (curriculums): five-year and three-year doctoral program that accepts bachelor’s degree holders and master’s degree holders, respectively. Students in the program will conduct their studies and research activities at the National Institute of Polar Research, located in Tachikawa, Tokyo.

National Institute of Polar Research

10-3 Midori-cho, Tachikawa, Tokyo, 190-8518 Japan
https://www.nipr.ac.jp/english/

Program Outline
Five-year doctoral program / Three-year doctoral program
Doctor of philosophy

Chair
HIRAWAKE Toru

Career Options for Graduates in this Program
Researchers and engineers in the field of earth and planetary sciences and other related science and engineering fields at universities, national laboratories, private companies, etc.
In the Basic Biology program, we challenge innovative biology by harnessing the unique traits of diverse organisms and employing cutting-edge technologies. Our goal is to foster students’ distinct problem-finding and problem-solving abilities and to develop the qualities of researchers who can lead future biological research. Together, let’s collaborate and embark on the exciting journey of exploring new frontiers in biology.

NIIMI Teruyuki

At the National Institutes for Basic Biology, the parent institute for the Basic Biology Program, we conduct research aimed at elucidating the common and fundamental mechanisms that underlie all living organisms, that contribute to biological diversity, and that enable organisms to adapt to their environment. The Basic Biology Program seeks to cultivate researchers capable of identifying fundamental and pressing questions in the biological science through research activities and coursework.

This program offers both a five-year and a three-year doctoral program for students with a bachelor’s degree and a master’s degree, respectively. Students primarily conduct their academic studies and research activities at the National Institute for Basic Biology, located in Okazaki, Aichi Prefecture.

Program Outline

Five-year doctoral program / Three-year doctoral program
Doctor of philosophy

Career Options for Graduates in this Program

- Faculty members and researchers in life science and related fields at universities and research institutes; skilled professionals in charge of research and development at companies that engage life sciences, chemical sciences, pharmaceuticals, medical sciences, and other related fields

Graduation ceremony at the National Institute for Basic Biology

National Institute for Basic Biology
38 Nishigonaka, Myodaiji, Okazaki, 444-8585 Japan
https://www.nibb.ac.jp/en/
The Physiological Sciences Program promotes research that leads to a better understanding of how the human body works and its mechanisms, with a particular focus on the brain, nerves, and the functions of organ systems interconnected with the brain. Research on the mechanisms of our body is directly related to maintaining health and understanding pathological conditions. Students who are interested in the human body in life science are invited to join us in the Physiological Sciences Program, which offers an excellent research environment.

Physiological science is a field of study that elucidates the functions and mechanisms of the body. It not only contributes to the development of life science but also provides scientific guidelines for people to lead healthy and fulfilling lives and information that is fundamental to understanding the mechanisms of disease. The Physiological Science Program aims to contribute to the accumulation of new knowledge in the life sciences by working to elucidate issues in the field of physiological science related to the role of the brain and nervous system and biological homeostasis, and to produce researchers and specialists with the foresight to pioneer this field. This program is offered as a five-year doctoral program accepting bachelor’s degree holders or a three-year doctoral program accepting master’s degree holders. Students in this program will conduct their studies and research activities at the National Institute for Physiological Sciences (NIPS) in Okazaki, Aichi Prefecture.

Chair
FURUSE Mikio

Careful research guidance in small groups
A scene from the degree conferment ceremony
Presentation and discussion of research findings at an international meeting
Magnetic resonance imaging of human brain
Three-dimensional imaging of living neurons in the brain
Research environment with access to advanced equipment

National Institute for Physiological Sciences
38 Nishigonaka, Myodaiji, Okazaki, 444-8585 Japan
https://www.nips.ac.jp/eng/

Career Options for Graduates in this Program
- Academic research institutions, life science-related companies, etc.
Graduate students in the Genetics Program participate as active research members in the enriched environment of the National Institute of Genetics (NIG). NIG has more faculty than students, allowing students to select Progress Committee members from various labs and seek research advice from them at any time. The Progress Committee system helps students broaden the scope of their research through guidance from faculty with diverse areas of expertise. Alumni trained as researchers at NIG go on to serve society in diverse fields in both academic and non-academic roles.

The Genetics Program fosters researchers who have deep insight and knowledge of the field of life sciences and can foresee future research. This program consists of two programs: a five-year doctoral program and a three-year doctoral program. Students in this program will conduct their research activities primarily at the National Institute of Genetics in Mishima, Shizuoka Prefecture.
Integrative Evolutionary Science is a new academic field that aims not only for the development of biology but also for elucidating the nature of human beings and solving social issues, through a comprehensive understanding of the change of living organisms, transition of human activities, and progression of global issues from an evolutionary perspective. The Integrative Evolutionary Science Program, in collaboration with the Research Center for Integrative Evolutionary Science, aims to pursue and share truths with society, produce future leaders in this field, and to contribute broadly to the development of science and society. Students in this program will conduct their studies and research activities at the Research Center for Integrative Evolutionary Science, located in Hayama, Kanagawa Prefecture. This program consists of two programs: a five-year doctoral program for students with a bachelor's degree and a three-year doctoral program for students with a master's degree.

**Career Options for Graduates in this Program**

- Researchers in the field of life sciences (evolutionary biology, molecular biology, genetics, ecology, medicine, etc.) or in the field of science and society (history of science, philosophy of science, science and technology studies, bioethics, etc.) at universities, research institutes, private companies, NGOs, and government agencies; science communicators
Educational Programs

SOKENDAI Freshman Course

The Freshman Course is an intensive course for newly-enrolled students of SOKENDAI. It is a unique program that intends to provide our new students with fundamental knowledge and skills for a researcher; and, is also an opportunity to learn about the breadth of academia through interactions with peer students and researchers coming from different fields. The Freshman Course is partly held for a few days long at our Hayama campus. It consists of three sessions: “Exploring Diversity in Academia (EDA)”, “Researchers and Society” and “Communication Skills for Researchers”.

SOKENDAI Special Researcher Program

The SOKENDAI Special Researcher Program is designed to foster future talents in academic research by appointing SOKENDAI students as Special Researchers and providing financial support and support programs for their career paths in the following two categories.

<table>
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<tr>
<th>Field-Specific Type</th>
<th>Pioneering Research Type</th>
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<tbody>
<tr>
<td>To support students conducting research in the field of information / AI and the field of “large-scale advanced science” using cutting-edge research facilities in the inter-university research institutes.</td>
<td>To support students who independently conduct original and challenging research that is not bound by the framework of existing research fields, departments, schools or other organizations.</td>
</tr>
</tbody>
</table>

The number of SOKENDAI Special Researcher

<table>
<thead>
<tr>
<th>Year</th>
<th>Field-Specific Type</th>
<th>Pioneering Research Type</th>
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<tbody>
<tr>
<td>2021</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>2022</td>
<td>24</td>
<td>16</td>
</tr>
<tr>
<td>2023</td>
<td>36</td>
<td>20</td>
</tr>
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</table>
SOKENDAI Student Dispatch Program

This program encourages SOKENDAI students to seek a short-term research opportunity abroad and/or a long-term collaborative research project in and outside Japan that may lead to their career in the future. The program follows the educational goals of SOKENDAI, “advanced specialties and expertise”, “broad perspective”, and “international competitiveness”, and intends to financially support such research opportunities of SOKENDAI students.

Category 1 (Short-term Abroad Program) → Number of students supported: 28
Category 2 (Long-term Abroad Program) → Number of students supported: 11
Category 3 (Long-term Domestic Program) → Number of students supported: 3

International collaborative degree program

SOKENDAI is promoting the “International Collaborative Degree Program”. This is an agreement with an overseas institution of higher education to provide joint thesis supervision to one student by faculty members from both institutions, thereby broadening the range of thesis and further increasing the international mobility of young human resources.

Overseas higher education institutions that have concluded agreements with SOKENDAI for international collaborative degree programs:

<table>
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<tr>
<th>Nation</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Thailand</td>
<td>Vidyasirimedhi Institute of Science and Technology</td>
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<td>Georgia</td>
<td>Georgian Technical University</td>
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<td>France</td>
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<td>Università di Bologna</td>
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<tr>
<td>China</td>
<td>Southwest Jiaotong University</td>
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Life Science Retreat

Life Science Retreat invites biology faculties and students for academic interactions, through which it aims to foster talents with a broader grasp of biological science and the capacity to contribute to the development of the field. English is used throughout the conference to improve the participants’ international caliber. Students plan and coordinate research presentations (oral and poster) and opinion exchanges. In the project, student organizers are expected to polish planning skills through the preparation and exercise presentation skills.

November 21-22, 2023 at Yamanashi Prefecture

In 2023, it was held over 2 days at Yamanashi Prefecture. A total of about 70 students/faculty members participated and discussed their research enthusiastically.
Society and Community Outreach Activities

Community Programs

We communicate the outcomes of the University’s educational and research activities and give back to the community, with the aim to promote and spread the arts and sciences, as well as promote excellent research findings.

SOKENDAI Outreach Activities

- **Challenges in the Exploration of the Unknown: Cutting-edge Studies Young Researchers Discuss 2023**
  SAKAMOTO Minoru (Professor, Department of Japanese History)  November 5-7,2023

- **“Tan-Q” Science education and outreach program using compact cosmic-ray detector**
  MIHARA Satoshi (Professor, Department of Particle and Nuclear Physics)  February 17,2024

- **Collaboration with KOSEN via fabrication of compact accelerators by students**
  OTANI Masashi (Assistant Professor, Accelerator Science)  February 21,2024

The Graduate University for Advanced Studies, SOKENDAI, in collaboration with Japan Society for the Promotion of Science

- **Commemorative Symposium for the 39th International Prize for Biology**
  Richard Durbin (University of Cambridge. Professor)  December 16,17 2023

“Yokoko Academia” with Kanagawa Prefectural Yokosuka High School

We supported the academic program, “Yokoko Academia” organized by Kanagawa Prefectural Yokosuka High School to contribute to local educational institutes and foster future generations. The school is designated as a Super Science High School by the Ministry of Education, Culture, Sports, Science and Technology.

JSPS Summer Program

This program, which is carried out in partnership with Japan Society for the Promotion of Science (JSPS), offers opportunities to practice research at inter-university research institutes (IURIs) or universities to young researchers who have undertaken or just completed doctoral programs for two months during the summer.

- USA ...................... 8
- Canada .................. 14
- UK ....................... 14
- France ..................... 12
- Germany .................. 18
- Sweden .................. 11

(77 fellows)

Orientation program in 2023

At the host Institute in 2023
Research in 2023 published on the following papers are press released and subsequently appeared in newspapers and various media:

2023.04.27
Astronomers image for the first time a black hole’s accretion flow together with a powerful jet

2023.04.06
Condensed but liquid-like domain organization of active chromatin regions in living human cells

2023.05.10
Evolutionary stability of cooperation in indirect reciprocity under noisy and private assessment

2023.08.11
Genome sequencing reveals the genetic architecture of heterostyly and domestication history of common buckwheat

2023.09.07
Grouping rule in tadpole: is quantity more or size assortment more important?

2023.09.28
Two-decade monitoring of M87 unveils a precessing jet connecting to a spinning black hole

2023.10.30
Clocks of adaptive evolution run more slowly in ecological and geographical peripheries: The adaptation front equation explains how species flows in geographical timescale generate living fossils

2023.12.18
Human diet of premodern mainland Japan: a meta-analysis of carbon and nitrogen stable isotope ratios

2023.12.26
Speed consensus and behavioral coordination of Adélie penguins traveling on sea ice in groups

2024.01.18
Breakthrough in Designing Complicated All-α Protein Structures

2024.01.10
M87* One Year Later: Proof of a persistent black hole shadow

2024.01.25
Metagenomic analyses of 7000 to 5500 years old coprolites excavated from the Torihama shell-mound site in the Japanese archipelago

2024.01.26
Molecular Simulation × AI Reveals Unresolved Structure of Transporter Protein

2024.03.01
Japanese wolves are most closely related to dogs and share DNA with East Eurasian dogs

2024.03.01
Groundbreaking Study Unveils Unique Roles of Yeast Protein Complexes in Cellular Lifespan and Environmental Response by Rationally Engineering Based on the Predicted Three-dimensional Structures

2024.03.11
Evolution of parental care in haploid–diploid plants

2024.03.13
Multi-cusped postcanine teeth are associated with zooplankton feeding in phocid seals

2024.03.22
Locating Transition States by Variational Reaction Path Optimization with an Energy-Derivative-Free Objective Function
The only research center in Japan with “evolution” at its core

The Research Center for Integrative Evolutionary Science aims to develop a new research field, “integrative evolutionary science,” to investigate both organismal evolution at multiple scales and scientific activities themselves and to apply the interdisciplinary expertise to help find solutions to various challenges in society. The Center fosters highly collaborative research among domestic and international communities.

In April 2022, the Research Center for Integrative Evolutionary Science was established on the Hayama Campus. As the only research center in Japan with “evolution” at its core, the center aims to create a new academic field of “Integrated Evolutionary Science” in collaboration with domestic and overseas research institutions.

The word “evolution” evokes the evolution of living organisms, but technology, culture and society also evolve. We consider evolution in such a broad sense and try to address how the system of organisms was created and changed in the 3.8 billion years-long history of life, how human activities (society, psychology, language, culture, etc.) have changed, how global problems in the Anthropocene progress, and what possible solutions can be comprehensively examined from the perspective of evolution.

The Research Center for Integrative Evolutionary Science thus aims to reconsider the concept of “evolution” and create a new research field “Integrated Evolutionary Science”, which not only advances the knowledge system of biology but also incorporates the findings of evolutionary science into human understanding and solutions to social issues.

Director, Research Center for Integrative Evolutionary Science
INNAN Hideki

Research Activities
- Development of the body of knowledge on the basis of organismal evolution
- Application of ideas gained from organismal evolution studies to other research fields
- Application of interdisciplinary expertise to seek solutions to various challenges in society

Other Activities
- Graduate education and researcher training
- Domestic and international collaborative research
- Outreach

https://rcies.soken.ac.jp/index_en.html

The Center for Education Planning and Development (CEPD)

“Advanced specialties and expertise,” “Broad perspective,” and “International competitiveness” are the educational goals of SOKENDAI, and they are the essential competencies for excellent researchers. In order to achieve these goals, we believe that the university-wide education that enhances the quality as an excellent researcher is necessary, in addition to specialized education carried out in each department. The missions of the CEPD are: to implement and support the university-wide education programs and projects; and, to assist in evaluation and analysis of the educational activities. We contribute to developing researchers rooted in our philosophy.

Education Development Section
- Promotion of university-wide education
- Planning and implementation of university-wide educational courses and seminars
  Implementation of the Freshman Course
- Implementation of CECPD seminars
- Support for the implementation of university-wide educational projects
  Support for the implementation of inter-university education
  Support for the implementation of international joint double degree programs

Institutional Research and Planning Section
- Analysis of educational effects through the preparation and analysis of educational data and the implementation of student questionnaires
- Research performance analysis using literature databases and research ability analysis tools
- Planning and implementation of SD training

Human Resources Development Section
- Cultivate “data scientist-type (DS-type) researcher human resources” who can promote data-driven research
The Center for Academic Information Services

This Center was established to aim at effective management of academic information in SOKENDAI. Based on secure and resilient information infrastructure, it provides various academic information services to researchers and researchers-in-future who are both users and creators of academic information, and supports education, research and administration in SOKENDAI.

Division of Information Services and Technology

Cooperating with the affiliated research institutes and museums, this division manages core information facilities and operates information systems located at the Hayama Campus.

Hayama Library

Hayama Library gathers, organizes and releases various academic materials to provide high-level research and education and to pioneer advanced academic fields. Hayama Library is open around-the-clock to the faculty and students at the Hayama Campus for reading and borrowing. It collects and makes available standard references and books that can be used in all program, as well as specialized books and journals related to studies in cutting-edge and/or interdisciplinary research fields. Image and video documentation materials are available through in-house facilities.

In addition, Hayama Library offers SOKENDAI Institutional Repository, which allows free online access to doctoral dissertations and book/journal publications at the University, as well as academic papers published by the faculty and students at the Hayama Campus. The Library also provides database services, including OPAC (Online Public Access Catalog) for books and journals held by the Library. These books and databases are also available to the general public. The venue effectively functions both as a place to collect research resources and a studying space. SOKENDAI staff and neighborhood residents can borrow books belonging to Kanagawa Prefectural Library (KL-NET Service). Furthermore, since 2015, it has been serving as a service counter of the National Diet Library to enable users to browse digital materials belonging to the National Diet Library.

University Library

The University Library consists of the Hayama Library and IURI libraries. The University Library gathers, organizes, and accumulates electronic materials. Under close cooperation with the Hayama Library and IURI libraries, the University Library aims to promote the education/research activities by performing required activities for the facilitation of the use of academic information. It offers a large number of e-journals and e-books so that faculty and students of IURIs dotted around the country can use these materials in common.

In addition, the university introduces and offers the world’s largest bibliographic/citation database “Scopus”.

Electronic Journals

https://www.lib.soken.ac.jp


※ In addition to the above, electronic journals for internal use at the Hayama Campus are available.
DATA BOOK

Nobel Prize Laureates from SOKENDAI

Nobel Prize in Physics

Professor Emeritus, School of High Energy Accelerator Science

The 2008 Nobel Prize in Physics for the discovery of the origin of the broken symmetry which predicts the existence of at least three families of quarks in nature

KOBA\textsc{\small YASHI} Makoto
Professor Emeritus, SOKENDAI / Honorary Professor Emeritus, High Energy Accelerator Research Organization (KEK)

1999.4-2004.3 Professor, School of Mathematical and Physical Science
2004.4-2006.3 Professor, School of High Energy Accelerator Science
2003.4-2004.4 Chair, Department of Particle and Nuclear Physics
2008 Order of Culture

Nobel Prize in Physiology or Medicine

Professor Emeritus, School of Life Science

The 2016 Nobel Prize in Physiology or Medicine for his discoveries of mechanisms for autophagy

OHSUMI Yoshinori
Professor Emeritus, SOKENDAI / National Institute for Basic Biology

[ Recipients of Award ]

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<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Prize</th>
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<tbody>
<tr>
<td>WATANABE Yasuaki (Professor)</td>
<td>Japanese Literature</td>
<td>Medal with Purple Ribbon (2023)</td>
</tr>
<tr>
<td>YAMADA Sakue (Professor Emeritus)</td>
<td>Dept. of Particle and Nuclear Physics</td>
<td>The Order of the Sacred Treasure, Gold Rays with Neck Ribbon (2022)</td>
</tr>
<tr>
<td>IYE Masanori (Professor Emeritus)</td>
<td>Dept. of Astronomical Science</td>
<td>The Order of the Sacred Treasure, Gold and Silver Star (2022)</td>
</tr>
<tr>
<td>ARIKAWA Kentaro (Professor)</td>
<td>Research Center for Integrative Evolutionary Science</td>
<td>Medal with Purple Ribbon (2022)</td>
</tr>
<tr>
<td>HASEBE Mitsuyasu (Professor)</td>
<td>Dept. of Basic Biology</td>
<td>Medal with Purple Ribbon (2022)</td>
</tr>
<tr>
<td>OHMORI Kenji (Professor)</td>
<td>Dept. of Functional Molecular Science</td>
<td>Medal with Purple Ribbon (2021)</td>
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<td>KOMATSU Kazuhiko (Professors Emeritus)</td>
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<td>NAGAMINE Kenetada (Professors Emeritus)</td>
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<tr>
<td>KODAIRA Keiichi (Professor Emeritus, Former President)</td>
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<td>The Order of the Sacred Treasure, Gold and Silver Star (2017)</td>
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<td>KAWAI Maki (Professor)</td>
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<td>Medal with Purple Ribbon (2017)</td>
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<td>OHSUMI Yoshinori (Professor Emeritus)</td>
<td>Dept. of Basic Biology</td>
<td>Order of Culture (2016)</td>
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<tr>
<td>OHTA Tomoko (Professor Emeritus)</td>
<td>Dept. of Genetics</td>
<td>Order of Culture (2016)</td>
</tr>
<tr>
<td>SUEMATSU Yasuharu (Professor Emeritus)</td>
<td>Dept. of Informatics</td>
<td>Order of Culture (2015)</td>
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</table>
SOKENDAI Award is founded in 2018 to commend the students who have accomplished their outstanding research and have been conferred their degrees with the excellent doctoral thesis.

The recipients of the 11th SOKENDAI Award (September 28, 2023)

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<tr>
<th>Name</th>
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<td>LI ENHAO</td>
<td>Dept. of Fusion Science</td>
<td>Development of high-performance mid-infrared laser sources for isotope detection applications</td>
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<tr>
<td>OZAKI Ryoto</td>
<td>Dept. of Statistical Science</td>
<td>Information criteria for detecting change-points in the Cox proportional hazards model</td>
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<td>HARSHA SOMASHEKAR</td>
<td>Dept. of Genetics</td>
<td>GLUCAN SYNTHASE-LIKE5 promotes anther callose deposition to maintain timely initiation and progression of meiosis in rice (Oryza sativa L.)</td>
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The recipients of the 12th SOKENDAI Award (March 22, 2024)

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<td>NAKAYAMA Tomonori</td>
<td>Dept. of Fusion Science</td>
<td>Modeling and co-simulation of global transport dynamics in turbulent plasmas</td>
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<td>KAWASHIMA Takahiro</td>
<td>Dept. of Statistical Science</td>
<td>Probabilistic Models Characterized by a Kernel Matrix and Their Learning Methods</td>
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<tr>
<td>NISHIMURA Ruka</td>
<td>Dept. of Genetics</td>
<td>Ancient Viral Discovery and Characterization Using Ancient DNA Sequencing Data</td>
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# Academic Staff

(As of May 1, 2024)

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<th>Professor</th>
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※ The number of staff in parentheses indicates those who concurrently work in other section [not included in the total].

A faculty directory is available on our website.

[Faculty Directory](https://www.soken.ac.jp/en/faculty-directory/index.html)
### Students

(As of May 1, 2024)

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<th>3rd Year  (1st Year**)</th>
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*1 These schools stopped accepting applications on March 31, 2023.
*2 The number of female students and international students is included in the total.
** The year of a 3-year doctoral program
### Applicants and Enrollments

(As of April 1, 2024)

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### Admission of the 2024

**Japanese National Universities**
- Hokkaido University
- Hokkaido University of Education
- Muroran Institute of Technology
- Hirosaki University
- Tohoku University
- Yamagata University
- Ibaraki University
- University of Tsukuba
- Saitama University
- Chiba University
- The University of Tokyo
- Tokyo University of Agriculture and Technology
- The University of Electro-Communications
- Hitotsubashi University
- Yokohama National University
- University of Yamanashi
- Shizuoka University
- Nagoya University
- Nagoya Institute of Technology
- Mie University
- Kyoto University
- Osaka University
- Kobe University
- Nara Women’s University
- Nara Institute of Science and Technology
- Okayama University
- Kochi University
- Kumamoto University

**Japanese Public Universities**
- Chioke Institute of Science and Technology
- Gifu Pharmaceutical University
- Nagoya City University
- The University of Shiga Prefecture
- Sanyo-Onoda City University

**Japanese Private Universities**
- Osaka Medical and Pharmaceutical University
- Okayama University of Science
- Kanagawa Institute of Technology
- Kwansei Gakuin University
- Kyoto Sangyo University
- Kindai University
- Keio University
- International Christian University
- Komazawa University
- Chuo University
- Tokyo City University
- Tokyo University of Agriculture
- Tokyo University of Science
- Doshisha University
- Nagahama Institute of Bio-Science and Technology
- Nara University
- Hosei University
- Meiji University
- Ritsumeikan University
- Waseda University

**Foreign Universities**
- Huazhong Agricultural University
- Nantong University
- Gyeongsang National University
- Pusan National University
- Aarhus University
- Institut Polytechnique des Sciences
- New York University
- PES University
- The University of British Columbia
- The University of Melbourne
- University of Groningen
- University of London
- University of Sao Paulo
- Universite Paris-Saclay

**Others**
- National Institute of Technology, Gunma College

![Diagram showing distribution of university types and counts](image-url)
[ Degrees Awarded ]

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※1 [ ] : The number of those who were granted the Ph.D. within a specified time after leaving the university.
※2 ( ) : The number of those who were granted the Ph.D. by way of Dissertation (not included in the total).

[ Career Tracking / Data of the 2023 ]

Universities / Research institutes, etc

Research Center for Integrative Evolutionary Science, SOKENDAI
The University of Tokyo
Tohoku University
Nagoya University
Toyo University
Ritsumeikan University
Okinawa Institute of Science and Technology
National University of Singapore
The University of Melbourne
National Astronomical Observatory of Japan
High Energy Accelerator Research Organization (KEK)
National Institute of Polar Research

National Institute of Informatics
National Institute for Basic Biology
National Institute for Physiological Sciences
Japan Aerospace Exploration Agency
Japan Atomic Energy Agency
National Institutes for Quantum Science and Technology
Max Planck Institute for Plant Breeding Research
Shanghai Institute of Optics and Fine Mechanics (SIOM)
The Chinese Academy of Social Sciences (CASS)
Bank of Japan
Toshiba City Office

Private companies / Public service corporation

Institute for Global Environmental Strategies
Mitsubishi Electric Corp.
ONO PHARMACEUTICAL CO., LTD.
Otsuka Chemical Co., Ltd.
CHUGAI PHARMACEUTICAL CO., LTD.
Toray Industries, Inc.
Metal Technology Co. Ltd.
SMBC Nikko Securities Inc.
Daïwa Securities Co. Ltd.
KONICA MINOLTA, INC.
CellSource Co., Ltd.
Japan Digital Design, Inc.
KPMG Consulting Co., Ltd.
ADK Holdings Inc.
RevComm Inc.
SCREEN Semiconductor Solutions Co., Ltd.
ZOZO NEXT, Inc.
Asilla, Inc.
LTS, Inc.
Core Concept Technologies Inc.
DWANGO Co., Ltd.
Recruit Co., Ltd.
FLECT Co.,Ltd.
dotData, Inc.
Dispensing Pharmacy

Unanswered 6 people 6.6%
Enrolling in other university 1 people 1.1%
Writing a doctoral dissertation 11 people 12.1%
Job-hunting 7 people 7.7%
Specialists/Technicians 17 people 18.7%
Undecided 6 people 6.6%

Total 91

※ Breakdown of the total
The number of those who completed a course and obtained a degree : 72
The number of those who left the university after obtaining the credits required for completion of a course in the relevant academic year : 19
### Number of International Students (As of May 1, 2024)

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<th>2nd Year</th>
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<th>4th Year</th>
<th>5th Year (2nd Year*)</th>
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* The number of female students and international students is included in the total.
** The year of a 3-year doctoral program
### Number of International Students

(As of May 1, 2024)

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* The number of female students and international students is included in the total.
** The year of a 3-year doctoral program.
DATA
SOKENDAI is promoting academic exchange and collaboration with other domestic and foreign universities through mutual agreements.

### Academic Agreement with Foreign Universities

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<td>July 20, 2020</td>
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<td>June 8, 2023</td>
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<td>December 27, 2019</td>
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<td>February 20, 2019</td>
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<td>China</td>
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<td>Germany</td>
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<td>Germany</td>
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<td>Vietnam National University of Agriculture Faculty of Animal Science</td>
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<td>Vietnam</td>
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<td>February 20, 2017</td>
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<tr>
<td>Bangladesh</td>
<td>Jahangirnagar University Faculty of Biological Sciences</td>
<td>October 2, 2018</td>
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<tr>
<td>India</td>
<td>Indian Institute of Science Education and Research Thiruvananthapuram</td>
<td>March 27, 2009</td>
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<tr>
<td>Slovenia</td>
<td>University of Ljubljana Biotechnical Faculty</td>
<td>August 28, 2014</td>
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### Academic Agreement with Universities in Kanagawa

<table>
<thead>
<tr>
<th>University / Institute</th>
<th>Date of Agreement</th>
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<tr>
<td>Tokyo Institute of Technology</td>
<td>April 1, 1995</td>
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<tr>
<td>Doshisha University</td>
<td>April 1, 1995</td>
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<tr>
<td>Nagoya University, Graduate School of Medicine</td>
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<tr>
<td>The University of Tokyo, Graduate School of Science, Technology and Innovation</td>
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<tr>
<td>The University of Tokyo, Graduate School of Information Science and Technology</td>
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<td>International Christian University, Graduate School of Arts and Sciences</td>
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<tr>
<td>Kyoto University, Graduate School of Asian and African Area Studies</td>
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<td>Osaka University, Graduate School of Human Sciences</td>
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<tr>
<td>Kobe University, Graduate School of Intercultural Studies / Human Development and Environment</td>
<td>April 1, 2005</td>
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<tr>
<td>Chiba University, Graduate School of Humanities and Studies on Public Affairs</td>
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<tr>
<td>Japan Advanced Institute of Science and Technology, Graduate School of Advanced Science and Technology</td>
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<td>Nagoya University, Graduate School of Engineering</td>
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<td>Chiba University, Graduate School of Science and Engineering</td>
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<td>Tsuda University, Graduate Program in Mathematics and Computer Science</td>
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<td>Kyushu University, Graduate School of Pharmaceutical Sciences</td>
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<td>Hosei University, Graduate School of Science and Engineering</td>
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<td>Osaka University, Graduate School of Engineering</td>
<td>June 1, 2019</td>
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<tr>
<td>Nagoya University, Graduate School of Science / Engineering / Bioagicultural Sciences / Pharmaceutical Sciences</td>
<td>October 1, 2019</td>
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<tr>
<td>Kumamoto University, Graduate School of Medical Sciences</td>
<td>November 29, 2019</td>
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<tr>
<td>The University of Shiga Prefecture, Graduate School of Human Sciences</td>
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<td>Kwansei Gakuin University, Graduate School of Science and Technology</td>
<td>April 1, 2022</td>
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<tr>
<td>Shizuoka University, Graduate School of Integrated Science and Technology / Medical Photonics / Science and Technology, Educational Division</td>
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### Academic Agreement with Domestic Universities

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<th>University / Institute</th>
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<tr>
<td>Acabu University</td>
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<td>Kanagawa University</td>
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<td>Kanto Gakuin University</td>
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<td>Kitasato University</td>
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<tr>
<td>Nihon University</td>
<td>Biobioscience</td>
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<td>Tokyo Polytechnic University</td>
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<td>Yokohama City University</td>
<td>Medicine</td>
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<td>Yokohama National University</td>
<td>Urban and Cultural Studies</td>
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<td>Tokyo Institute of Technology</td>
<td>Life Science and Technology</td>
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<td>Ferris University</td>
<td>Global and Inter-cultural Studies</td>
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<td>Meiji University</td>
<td>Agriculture</td>
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<td>Institute of Information Security</td>
<td>Computer Security</td>
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<td>Tokyo City University</td>
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<td>Shion University</td>
<td>Business Administration</td>
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<td>Sagamihara Women's University</td>
<td>Education</td>
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<td>Aoyama Gakuin University</td>
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<td>Science and Technology</td>
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<td>St. Marianne University School of Medicine</td>
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<td>Showa University</td>
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<td>Joso University of Art and Design</td>
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<td>Tamaki University School of Medicine</td>
<td>Medicine</td>
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<tr>
<td>Yokohama Sei University</td>
<td>Nursing</td>
</tr>
</tbody>
</table>

The Graduate University for Advanced Studies, SOKENDAI
[FY2024 Income and Expenditures Budget]

- **Total Budget Income**: 2,458,373
- **Total Expenditures Budget**: 2,458,373

#### Income from industry-academia collaboration research and donations
- 130,878 (5.3%)

#### Elimination of appropriated surplus
- 150,778 (6.1%)

#### Personnel expenses
- 768,413 (31.3%)

#### Research expenses
- 1,033,193 (42.0%)

#### Education expenses
- 56,260 (2.3%)

#### General and administrative expense
- 304,625 (12.4%)

#### Education and research support expenses
- 173,732 (7.1%)

#### Facility maintenance costs
- 14,000 (0.6%)

#### Research expenses for industry-academia collaborative research and donations operating expenses
- 108,150 (4.4%)

#### Miscellaneous income
- 2,096 (0.1%)

- **Income from tuition, admission, and examination fees**: 173,411 (7.1%)

- **Subsidy from the National Government**: 1,845,019 (75.1%)

- **Subsidy for Broadening Opportunities for Outstanding young researchers and doctoral students in Strategic areas**: 7,800 (0.3%)

- **Facilities subsidy for the national university corporations**: 60,076 (2.4%)

- **Subsidy for Support for Pioneering Research Initiated by the Next Generation**: 27,550 (1.1%)

- **Subsidy for University Fellowship Creation Project for Innovation in Science and Technology**: 46,766 (1.9%)

- **National Institution for Academic Degrees and Quality Enhancement of Higher Education facilities subsidies**: 14,000 (0.6%)

#### ACCESS

Hayama campus
Shonan Village, Hayama, Kanagawa, 240-0193 Japan
TEL: 81-46-858-1500
SOKENDAI renewed our logo as we celebrate the 30th anniversary of the university’s foundation in 2018. SOKENDAI represents a unique educational structure that provides intellectual knowledge at the highest standards. The ethos of the brand is mirrored through the visualization of a line ‘Intelligence Connector’ which symbolizes a platform for the multiple numbers of research centers across the world that form the diverse educational platform of SOKENDAI.

[Cover Image]

Head of a male Wood White: scanning electron micrograph

Wood White butterfly, *Leptidea amurensis*, is a small species found in grasslands. Although the number is decreasing due to habitat loss, they are still abundant around Mount Fuji. The width of the head is approximately 2mm, with large compound eyes on each side. The rough appearance of the lower two-thirds of the eyes is due to variations in the size of the ommatidia, the individual units making up the compound eyes. Larger ommatidia are more sensitive to light than smaller ones, so mixing different sizes widens the brightness range to which they can respond. However, this roughness is specific to males; the female compound eyes consist of uniformly sized ommatidia. Presumably, males and females perceive the world differently.