

CAMPUS LIFE

GSFS Students Exploring New Frontiers of Knowledge

In a dynamic learning environment at GSFS, students challenge the unknown, deepen their knowledge, and create new value.



YU Pei Lin
Department of International Studies
Second-year Master's Student

I study how least developed countries prioritise flood management strategies. Through interdisciplinary learning, I have gained a deeper understanding of how interconnected social, environmental, and institutional systems shape disaster resilience.



ICHIKAWA Haru
Department of Advanced Energy
Second-year Doctoral Student

I am conducting research on analysis and control of multibody systems, including electric vehicles, and spending fulfilling days connecting theory with practice through experiments and lab discussions.



HISANAGA Riko
Department of
Integrated Biosciences
First-year Master's Student

Exploring plant cell mechanisms through transdisciplinary life sciences, I seek to uncover novel biological phenomena via diverse cross-disciplinary collaborations.

GSFS Introduction Video

<https://www.k.u-tokyo.ac.jp/en/gsfs/video/>



GSFS DATA

Master's Students
Male **683**
Female **256**

Doctoral Students
Male **487**
Female **207**

International Students
675

Countries of Origin of International Students
39 countries

Percentage of International Students
41.3 %

Faculty Members
207

International Exchange Agreements
54 partners

As of May 1, 2026



**Graduate School of Frontier Sciences,
The University of Tokyo**

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**Graduate School of Frontier Sciences,
The University of Tokyo**



GSFS

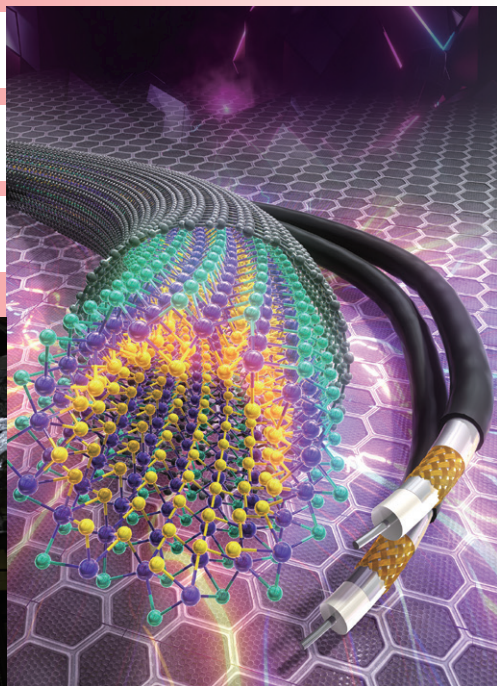


Venture into Unknown Fields

Connect with Society,
and Create New Disciplines:
Experience an Intellectual
Adventure!

GSFS Mission: Tackling Social Challenges

Transdisciplinary approaches that cross
boundaries and open new frontiers



Unraveling the Principles
behind Phenomena

Department of Advanced Materials Science

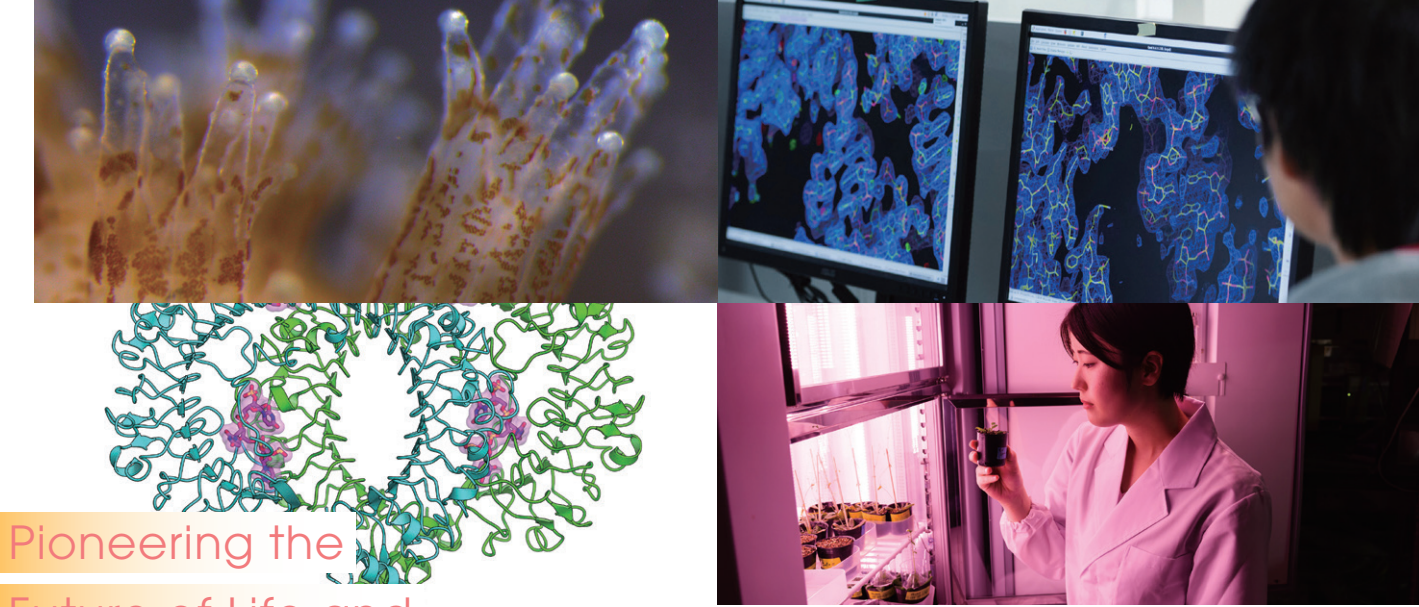
Advancing the fundamental understanding of
matter to foster creative intellect that
pioneers transformative materials for the future.

Department of Advanced Energy

Shape the society of the future by developing future
energy and advanced applications of energy.

Department of Complexity Science and Engineering

Developing multiscale complexity science
and technology.



Pioneering the Future of Life and Biomedical Sciences

Department of Integrated Biosciences

Exploring the frontiers of
life sciences through
diversity and universality.

Department of Computational Biology and Medical Sciences

Research facilitating transition from basic
research to applications via computational
biology and medical sciences.

Department of Natural Environmental Studies

Learn from nature and build a sustainable future.
Geosphere, hydrosphere, atmosphere,
biosphere, and human.

Department of Ocean Technology, Policy, and Environment

Pioneering the uncharted potential of the vast
sea by integrating advanced ocean technology,
environmental science, and technology policy.

Department of Environment Systems

Environment – explore the present, shape our future.

Creating Sustainable Environments on a Global Scale



Department of Human and Engineered Environmental Studies

Understanding people, supporting people, and connecting people.

Department of Socio-Cultural Environmental Studies

Create vibrant spaces to connect people across the scales
of architecture, cities, regions, the Earth, and the Moon.

Department of International Studies

Scientifically resolving international cooperation
issues from multidisciplinary perspectives.

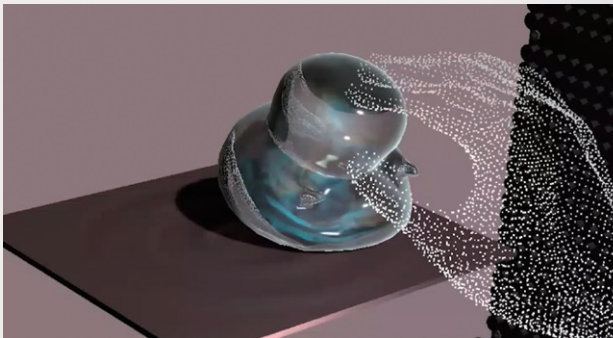
Taking a Multidimensional Approach to the Environment Surrounding Humanity



MISSION

Featured Topics

Advanced Science



| Key Researches |

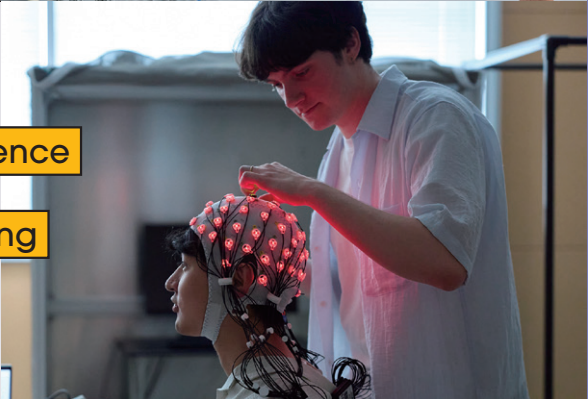
Brain x AI

Exploring Brain Information Processing and Decoding Intelligence through AI.

Haptics

Feeling something from nothing. Contactless reproduction of realistic tactile experiences.

Accelerating Data-Driven Science with AI and Machine Learning



Social Infrastructure / Energy

| Key Activities |

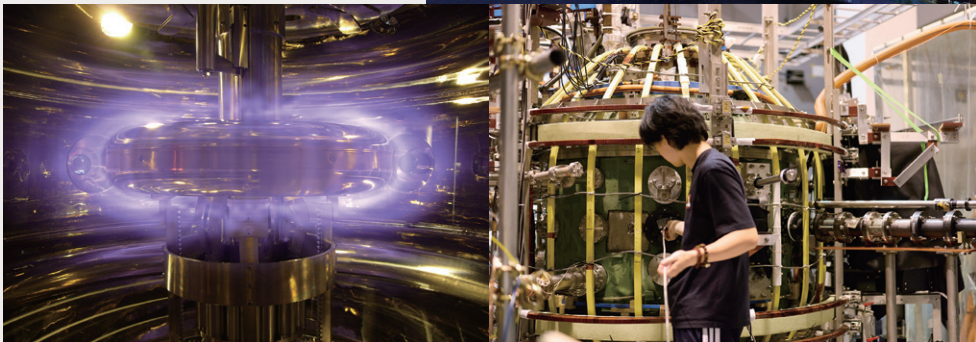
UT-FlOWIND

Through floating offshore wind power, we are driving the transformation to sustainable energy.

Research Supporting Current Decarbonization Efforts and Research into New Energy for the Future

Transdisciplinary Fusion Energy Center

Advancing Fusion Energy from Fundamental Research to Societal Implementation through Transdisciplinary Collaboration.



Natural Environment / Ecosystems

Envisioning the Future through a Comprehensive Perspective on Nature, People, and Ecosystems, Integrating Field Research, Data, and Modeling

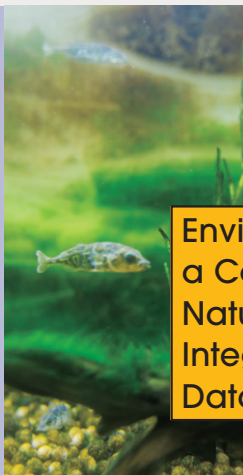
| Key Activities |

Graduate Program in Sustainability Science (GPSS)

Fostering future leaders with a global perspective and an action-oriented mindset.

Field-Oriented Initiative for Environmental Ecology Research

We conduct field-oriented environmental ecology research using artificial ecosystems.



Human / Genome

Cultivating Interdisciplinary Talent for Genomics and Smart Health

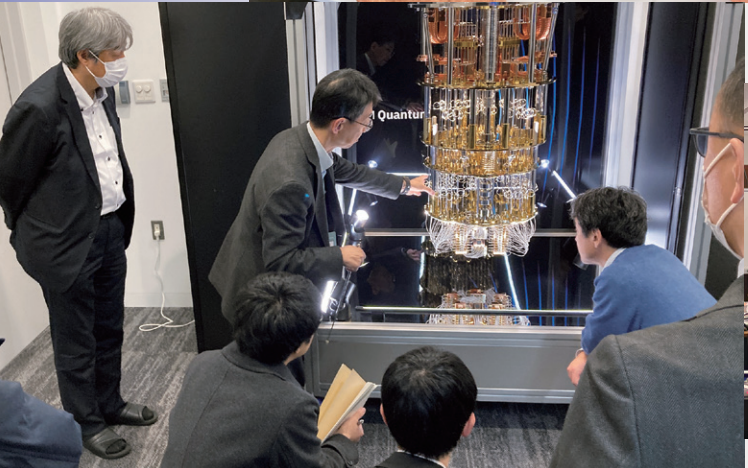
| Key Activities |

Smart Health School

Cultivating Advanced Experts in Both AI and Life Sciences to Promote Future Smart Healthcare.

Genome School

Professional reskilling program to realize social implementation of latest genome technologies.



INNOVATION



GSFS × **Smart Cities**

Smart City School

Learning to Design and Implement Smart Cities



GSFS × **Local Governments**

Urban Design Center Kashiwa-no-ha

Co-creating the Future of Kashiwanoha through Public, Private, and Academic Collaboration

Urban Design Center Shinchi

Building a Sustainable Future Together with Shinchi Town

Collaboration with Society Accelerates the Creation of New Frontiers

GSFS × **Recurrent Education**

Sustainable Finance School

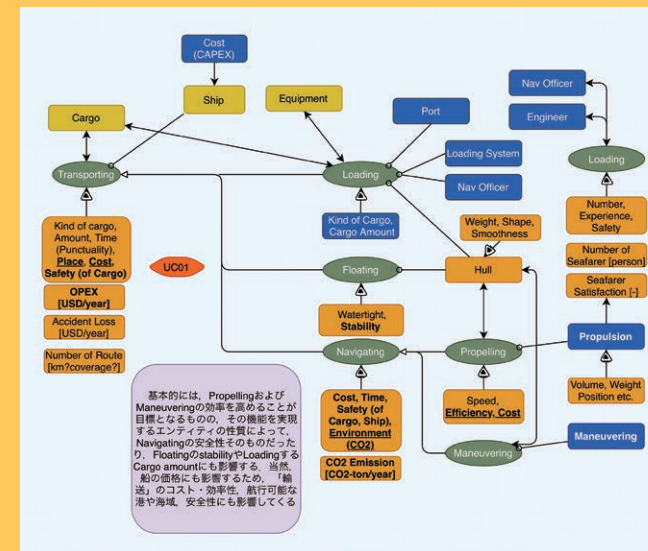
Learn purposes of sustainable management for private sector



GSFS × **Life Sciences**

Kashiwa-no-ha Life Science Council (KLS)

Cross-sector and interdisciplinary collaboration in life sciences



GSFS × **Design**

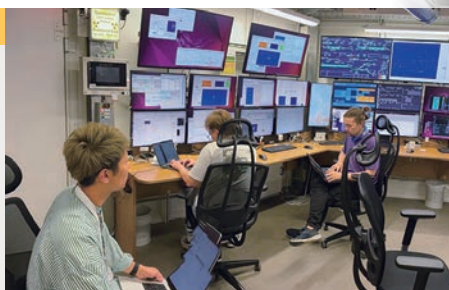
Creating Pathways to Solutions through System Design

A Framework for Managing Complexity

GSFS × **Academia**

Collaborative Program in Synchrotron Radiation Science with RIKEN

International Collaborative Research in X-ray Laser Science



GSFS × **Mobility**

Dynamic Wireless Power Transfer

Advancing Next-Generation EV Charging with Over 30 Collaborative Partners

GSFS × **International Collaboration**

Karolinska Institutet (KI)

On-site Faculty Member
Accelerating Research and Talent Development through Exchange

United Nations University (UNU)

Jointly Certified Program with the Institute for the Advanced Study of Sustainability (UNU-IAS)

