

## SOKA University

### Graduate School of Science and Engineering

<b>1. Graduate School Code</b>	4	
<b>2. Area</b>	Science and Engineering	
<b>3. Research Field</b>	(1) Environmental Engineering for Symbiosis Global Environmental Chemistry/ Biosphere Science/ Environmental Response Engineering/ Sustainable Environmental Engineering (2) Information Systems Science Mathematical Informatics/ Information Processing/ Communication & Control (3) Biosciences Bio-molecular Sciences/ Cellular Biosciences/ Bio-information Sciences/ Functional Biosciences	
<b>4. Degree</b>	Master's Degree in Engineering (Environmental Engineering for Symbiosis & Information Systems Science) Master's Degree in Science (Biosciences)	
<b>5. Standard Timetable (Years needed for graduation)</b>	Learning Japanese for about 1 year at a designated organization with other JISR participant, then starting Master course for two years after passing the entrance exam.	
<b>6. Language of Program</b>	(1) Basically English, but some lectures are in Japanese (110/140) (2) Text: English but Japanese text will be used partially while English instructions are given orally. (3) Laboratory work: Safety instructions are written in Japanese. Conducting of the research is generally instructed by the supervisor in English. (4) Seminar: Seminars including Japanese students are generally in Japanese, but there are many occasions where foreign students can interact in seminars in English.	
<b>7. Desirable English Level and Necessary Academic Background</b>	(1) TOEFL IBT:72+ or IELTS5.5+ is required (2) At least 16 years of academic background or equivalent	
<b>8. Website</b>	(1) SOKA University <a href="http://www.soka.ac.jp/en/index.html">http://www.soka.ac.jp/en/index.html</a> (2) Graduate School of Science and Engineering <a href="https://www.soka.ac.jp/en/grad-eng/">https://www.soka.ac.jp/en/grad-eng/</a> (3) Department of Information Systems Science <a href="https://www.soka.ac.jp/en/grad-eng/course/sys/">https://www.soka.ac.jp/en/grad-eng/course/sys/</a> (4) Department of Environmental Engineering for Symbiosis <a href="https://www.soka.ac.jp/en/grad-eng/course/envi/">https://www.soka.ac.jp/en/grad-eng/course/envi/</a> (5) Department of Biosciences <a href="https://www.soka.ac.jp/en/grad-eng/course/biosciences/">https://www.soka.ac.jp/en/grad-eng/course/biosciences/</a>	
<b>9. Additional Information</b>	Availability	Note
Japanese Language		
(1) Necessity of Japanese language for study	Not necessary	Japanese language is not necessary for study, but some lectures are only in Japanese. University will support for supplementary lectures and providing English materials for the lecture.
(2) Availability of Japanese language class	N/A	Graduate students are allowed to audit the Japanese language courses.

Facility Information		
(1) Dormitory available for JISR participants	Available	Single type, Family type: Not Available * 13 (1)
(2) Prayers room or Mosque	N/A	A room offered as prayers space. There is a Mosque nearby.
(3) Halal food available in cafeteria	N/A	But, there is a Halal food grocery corner available in Student Center.
Others		
(1) Tutor system	Available	

## 10. Features and Curriculum of Program

- \* More than 32 credits are required for graduation in Environmental Engineering for Symbiosis and more than 30 credits in Information Systems Science and Biosciences` curriculum.

### Master`s Curriculum for Environmental Engineering for Symbiosis

This major comprise the common courses, plus courses in four major fields: global environmental science, biosphere science, environmental response engineering, and sustainable environmental engineering. This graduate school's teaching staffs provide research guidance concerning leading-edge environmental science and engineering.

<https://www.soka.ac.jp/en/grad-eng/course/envi/>

### Master`s Curriculum for Information Systems Science

The purpose of the Information Systems Science major is to foster excellent and creative engineers and researchers who will support our information-oriented society. Our educational and research activities focus on the construction of information systems including computer and software systems for communication, control, networking, and multimedia processing. Our fields of activity include: establishing mathematical fundamentals for supporting information systems; applying information systems for artificial intelligence, artificial life and greater quality of life; solving various issues by leveraging sophisticated information systems; and implementing information systems for opto-electronics, image information and multimodal information.

<https://www.soka.ac.jp/en/grad-eng/course/sys/>

### Master`s Curriculum for Biosciences

In the master's program, students are expected to conduct research in laboratories across four major fields: Bio-molecular sciences, Cellular biosciences, Bio-information sciences, and Functional biosciences. Students can develop knowledge in a wide range of areas, including biochemistry, biophysics, bioinformatics, molecular and cellular biology, glycobiology, virology, immunology, neuroscience, bio-nanotechnology, and bioelectronics.

<https://www.soka.ac.jp/en/grad-eng/course/biosciences/>

## 11. Professors and Associate Professors

Position	Name	Research Subject/ Contact
Professor	Soichi Sakabe (Mr.)	<b>Major fields</b> Social engineering, informational environment engineering <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/soichi-sakabe/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/soichi-sakabe/#anchor1</a>
Professor	Teruaki Kitano (Mr.)	<b>Major fields</b> Topology <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/teruaki-kitano/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/teruaki-kitano/#anchor1</a>
Professor	Yukio Kobayashi (Mr.)	<b>Major fields</b> Mathematical physics <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/yukio-kobayashi/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/yukio-kobayashi/#anchor1</a>
Associate Professor	Atsushi Yamagami (Mr.)	<b>Major fields</b> Number Theory <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/atsushi-yamagami/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/atsushi-yamagami/#anchor1</a>
Associate Professor	Tomoko Sakiyama (Ms.)	<b>Major fields</b> Animal Behaviour, Swarm intelligence, Soft computing <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/tomoko-sakiyama">https://www.soka.ac.jp/en/faculty-profiles/tomoko-sakiyama</a>
Associate Professor	Michiko Nishiyama (Ms.)	<b>Major fields</b> 1. Smart structure to embed optic fiber nerve sensors. 2. Fiber optics hydrogen sensor 3. Multipoint measurement of fiber optic sensors based on optical intensity 4. Unconstraint biomedical monitoring to human activity using fiber optic sensor <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/michiko-nishiyama/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/michiko-nishiyama/#anchor1</a>
Dean, Professor	Tatsuo Unemi (Mr.)	<b>Major fields</b> Artificial Life, Genetic Algorithm, Artificial Society, Media Art <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/tatsuo-unemi/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/tatsuo-unemi/#anchor1</a>
Chief of Major, Professor	Masayasu Atsumi (Mr.)	<b>Major fields</b> Artificial intelligence, Neural network, Machine learning, Human-machine interaction <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/masayasu-atsumi/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/masayasu-atsumi/#anchor1</a>

Position	Name	Research Subject/ Contact
Professor	Norihiko Shinomiya (Mr.)	<b>Major fields</b> Graph and Network Theory, Distributed Algorithm, Optical Fiber Network, Sensor Network, <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/norihiko-shinomiya/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/norihiko-shinomiya/#anchor1</a>
Department Chief, Professor	Yoshiaki Terashima (Mr.)	<b>Major fields</b> Sensor Network, Wireless Network Security, Network Simulation, Distributed Processing, Software Engineering <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/yoshiaki-terashima/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/yoshiaki-terashima/#anchor1</a>
Professor	Naoya Torii (Mr.)	<b>Major fields</b> Information security, High speed implementation of encryption algorithms, Cryptographic module, Side channel attack countermeasures, Countermeasures against cyber-attacks, Digital Content Protection <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/naoya-torii/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/naoya-torii/#anchor1</a>
Professor	Kazuhiro Watanabe (Mr.)	<b>Major fields</b> Laser, Opto-Electronics, Optical Fiber Sensors, Sensing <b>For more detail</b> <a href="https://www.soka.ac.jp/en/grad-eng/course/sys/staff/">https://www.soka.ac.jp/en/grad-eng/course/sys/staff/</a>
Associate Professor	Yoshio Ishii (Mr.)	<b>Major fields</b> Information Thermodynamics (Maxwell's Demon and Information engine), Numerical analysis and Simulation, Flow and Information Visualization, Laser Applications <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/yoshio-ishii/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/yoshio-ishii/#anchor1</a>
Professor	Yongwoon Choi (Mr.)	<b>Major fields</b> Environment Recognition for Navigation Control of Mobile Robots and Development of Automatic System based on Robot Vision <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/yongwoon-choi/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/yongwoon-choi/#anchor1</a>
Associate Professor	Taketoshi Iyota (Mr.)	<b>Major fields</b> Software, Computer system network, Measurement engineering <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/taketoshi-iyota/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/taketoshi-iyota/#anchor1</a>
Associate Professor	Imamura Hiroki (Mr.)	<b>Major fields</b> Image Processing, Pattern Recognition, Computer Vision <b>For more detail (Japanese only)</b> <a href="http://150.37.222.14/">http://150.37.222.14/</a>

Position	Name	Research Subject/ Contact
Professor	Shoichi Kubodera (Mr.)	<b>Major fields</b> Laser engineering, Quantum electronics <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/shoichi-kubodera/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/shoichi-kubodera/#anchor1</a>
Chief of Major, Professor	Masamichi Ikeguchi (Mr.)	<b>Major fields</b> Biochemistry, Biophysics, Protein Science, Protein Engineering <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/masamichi-ikeguchi/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/masamichi-ikeguchi/#anchor1</a>
Professor	Shinsaku Maruta (Mr.)	<b>Major fields</b> Biochemistry, Biophysics, Bio-nanotechnology <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/shinsaku-maruta/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/shinsaku-maruta/#anchor1</a>
Associate Professor	Kazuo Fujiwara (Mr.)	<b>Major fields</b> Advanced Biopolymer Science <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/kazuo-fujiwara/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/kazuo-fujiwara/#anchor1</a>
Professor	Shoko Nishihara (Mrs.)	<b>Major fields</b> Glycobiology, Cell biology, Biochemistry, Molecular biology, Developmental biology, Stem cell biology <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/shoko-nishihara/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/shoko-nishihara/#anchor1</a>
Professor	Sayaka Takase (Mrs.)	<b>Major fields</b> Virology <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/sayaka-takase/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/sayaka-takase/#anchor1</a>
Professor	Izumi Kubo (Mrs.)	<b>Major fields</b> Analytical Chemistry, Bioelectronics, Bio-electrochemistry <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/izumi-kubo/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/izumi-kubo/#anchor1</a>
Professor	Kiyoko Flora Kinoshita (Mrs.)	<b>Major fields</b> Glycome informatics, bioinformatics, data mining, algorithms, knowledge discovery, distributed systems, networks <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/kiyoko-kinoshita/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/kiyoko-kinoshita/#anchor1</a>
Professor	Atsushi Seki (Mr.)	<b>Major fields</b> Chemical sensor, Biosensor <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/atsushi-seki/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/atsushi-seki/#anchor1</a>

Position	Name	Research Subject/ Contact
Professor	Kazuyuki Nakajima (Mr.)	<b>Major fields</b> Neurochemistry, Neurocellbiology <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/kazuyuki-nakajima/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/kazuyuki-nakajima/#anchor1</a>
Professor	Hideki Kawai (Mr.)	<b>Major fields</b> Neurobiology, Neurophysiology, Neuropharmacology <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/hideki-kawai/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/hideki-kawai/#anchor1</a>
Professor	Shuichiro Goda (Mr.)	<b>Major fields</b> Protein science, Biophysics, Enzyme science <b>For more detail (Japanese only)</b> <a href="https://www.soka.ac.jp/faculty-profiles/goda/#anchor1">https://www.soka.ac.jp/faculty-profiles/goda/#anchor1</a>
Professor	Akira Togayachi (Mr.)	<b>Major fields</b> Glycobiology, Cell biology <b>For more detail (Japanese only)</b> <a href="https://www.soka.ac.jp/faculty-profiles/togayachi/#anchor1">https://www.soka.ac.jp/faculty-profiles/togayachi/#anchor1</a>
Chief of Major, Professor	Norio Kurosawa (Mr.)	<b>Major fields</b> Microbiology, Molecular Biology <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/norio-kurosawa/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/norio-kurosawa/#anchor1</a>
Professor	Tatsuki Toda (Mr.)	<b>Major fields</b> Restoration Ecology, Biological Oceanography, Plankton Physiological Ecology, Ecological Engineering <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/tatsuki-toda/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/tatsuki-toda/#anchor1</a>
Professor	Shinichi Victor Kuwahara (Mr.)	<b>Major fields</b> Biological Oceanography, Environmental Optics, Coastal Ecology, Environmental Education <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/victor-kuwahara/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/victor-kuwahara/#anchor1</a>
Professor	Ken Furuya (Mr.)	<b>Major fields</b> Aquatic biology, Environmental science <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/ken-furuya/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/ken-furuya/#anchor1</a>
Professor	Shuichi Yamamoto (Mr.)	<b>Major fields</b> Organic Geochemistry, Environmental Chemistry, Paleoenvironment, Environmental education, Environmental ethics <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/shuichi-yamamoto/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/shuichi-yamamoto/#anchor1</a>

Position	Name	Research Subject/ Contact
Professor	Shinjiro Sato (Mr.)	<b>Major fields</b> Biochar, Soil-Plant Nutrient Cycling, Utilization of Organic Waste Materials, Tropical Soils, Soil Conservation <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/shinjiro-sato/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/shinjiro-sato/#anchor1</a>
Department Chief, Professor	Masato Ito (Mr.)	<b>Major fields</b> Organic Reaction Chemistry, Synthetic Organic Chemistry, Physical Organic Chemistry, Computational Chemistry, Chemical Education <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/masato-ito/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/masato-ito/#anchor1</a>
Professor	Tatsushi Matsuyama (Mr.)	<b>Major fields</b> Powder Technology, Applied Electrostatics, Chemical Engineering <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/tatsushi-matsuyama/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/tatsushi-matsuyama/#anchor1</a>
Professor	Akio Shimizu (Mr.)	<b>Major fields</b> High pressure chemistry, Physical chemistry, Biophysics <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/akio-shimizu/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/akio-shimizu/#anchor1</a>
Professor	Jun'ichi Ida (Mr.)	<b>Major fields</b> Environmental Chemical Engineering, Materials Science and Engineering <b>For more detail</b> <a href="https://www.soka.ac.jp/en/faculty-profiles/junichi-ida/#anchor1">https://www.soka.ac.jp/en/faculty-profiles/junichi-ida/#anchor1</a>

## 12. Academic schedule

Sep 2021 : Japanese Language Study  
 Feb 2022 : Application for Master`s Program  
 June 2022 : Admission for Master`s Program  
 Sep 2022 : Enrollment as Master`s Student  
 Sep 2024 : Completion

## 13. Facilities and Cultural activities for International students

### (1) Student Dormitory

We are providing student dormitory (Single type) for both female and male students. The dormitory is near to the campus.

### (2) Japanese Language Program

There is no Japanese language courses available for research student and graduate students. However, in case there is vacancy in non-degree Japanese language program, international students are allowed to audit the class.

**(3) Others (Healthcare center, Counseling Support, Homestay Program, Cultural Tour etc)**

Facilities and services as healthcare center and counseling supports are open to International students. By holding a variety of events occasionally, such as homestay program during summer, tour to cultural spots, university festival and various activities, providing a fulfilled study life to international students.

<http://www.soka.ac.jp/en/campuslife/>

**14. Information on Job Placement Assistance Service for International Students**

Soka offers support for international students including career counseling and guidance services, and will encourage students to become the bridge between Japan and their home countries, as well as the world.

<http://www.soka.ac.jp/en/career/>

**15. Message for JISR applicants**

The campus is filled with students, faculty and administrators coming from globally diverse background, language paradigms, cultures and history. We have more than 20 students from Islamic area, for examples, Indonesia, Malaysia, Turkish, Egypt, Brunei, Bangladesh, Pakistan and etc. Not only the facilities and infrastructures are substantial, moreover, the teaching staffs and administrators, even the students here are willing to help international students on study and living in Japan.