For International Applicants

Graduate School of Life and Environmental Sciences
Osaka Prefecture University

Master's Program
Admission Guidelines for International Students

[For Sep., Oct. 2020 Admission]
[For Apr. 2021 Admission]

Apr. 2020

Graduate School of Life and Environmental Sciences
Osaka Prefecture University

URL<http://www.bioenv.osakafu-u.ac.jp/>

Contents

Admission Policy of the
Graduate School of Life and Environmental Sciences

Our institution seeks to identify and utilize various life phenomena and functions in order to preserve the global environment in a sustainable manner through advanced education in the fields of bioscience and biotechnology. Moreover, we aim to develop technical experts and researchers who can contribute to advanced research, technical development, and academic progress and who are capable of serving as international leaders with a broad outlook, high moral standards, profound insights, and creative approach to research.

In an effort to implement this policy, the Graduate School of Life and Environmental Sciences is now seeking applicants for admission with the following attributes:

- applicants with a deep interest in and understanding of the living environment as well as life phenomena and functions;
- applicants with a spirit of inquiry and the ability to think logically; and
- applicants with basic knowledge of the relevant scientific fields and the ability to understand, speak, and write English.

Admission Guidelines for International Applicants
Master's Program

1. Allocation of Admission Spaces

(1) Division of Applied Life Sciences:

Department	Capacity
Applied Life Sciences:	low enrollment capacity

(2) Division of Environmental Sciences and Technology:

Department	Capacity
Environmental Sciences and Technology:	low enrollment capacity

2. Qualification for Admission

[For admission in Sep. or Oct. 2020]

Those who are not Japanese nationals and fall under any of the following categories. Furthermore, as for university graduates in Japan and those expecting to graduate from universities in Japan, this applies only to those who have been granted entrance through the special selection system for foreign students and those entering through college transfers.

(1) Those who have completed 16 years of school education in foreign countries and those who are expected to complete their studies by Sep. 30, 2020.

(2) Those who have graduated from a university in Japan or who is expected to graduate by Sep. 30, 2020.

(3) Those awarded a degree from the National Institute for Academic Degrees and Quality Enhancement of Higher Education and those who is expected to receive a degree by Sep. 30, 2020.

(4) Those who have completed in Japan a 16-year course offered by a foreign school through correspondence in Japan and those who are expected to complete their studies by Sep. 30, 2020.

(5) Those who have completed in Japan relevant courses designated separately by the Minister of Education, Culture, Sports, Science and Technology at an educational institution that is positioned within the school education system of the relevant foreign country as one that provides university courses(*1). This also includes those who are expected to complete their studies by Sep. 30, 2020.

*1 This applies only to those who have completed 16 years of course work as part of school education in the relevant foreign country.

(6) Those who were awarded a degree equivalent to a Bachelor's degree by completing a course with a study period of at least 3 years at a foreign university or other foreign school (* 2) and those who are expected to be awarded the degree by Sep. 30, 2020.

*2 The comprehensive situation regarding educational research activities shall be limited to those who have been evaluated by the foreign government or persons recognized by related organizations or those designated by the Minister of Education, Culture, Sports, Science and Technology.
This includes completing in Japan, according to the information given above, the correspondence course offered by the relevant foreign school which is part of the education system of that foreign country.

(7) Those who have completed a course after the date separately designated by the Minister of Education, Culture, Sports, Science and Technology in a specialized course offered by a vocational school (*3). This also includes those who are expected to complete their studies by Sep. 30, 2020.

*3 Students must meet the standards specified by the Minister of Education, Culture, Sports, Science and Technology such as the duration of the course of study being at least 4 years and other standards.

(8) A person designated by the Minister of Education, Culture, Sports, Science and Technology (Feb. 7, 1953 Notice No. 5 of the Ministry of Education).

(9) A person who falls under any of the following and is recognized by the Graduate School as having acquired the designated credits with excellent results (so-called grade skipping).

a. Those who have studied at a university in Japan for at least 3 years and those who are expected to have attended the university for at least 3 years by Sep. 30, 2020.

b. Those who completed a 15-year course as part of school education in a foreign country and those who are expected to complete their studies by Sep. 30, 2020.
c. Those who have completed a 15-year course which is part of the relevant foreign country's school education. The course subjects must have been completed in Japan through correspondence. This also includes those who are expected to complete their studies by Sep. 30, 2020.
d. Those who have completed in Japan the relevant courses designated by the Minister of Education, Culture, Sports, Science and Technology offered by an education institution that is positioned within the school education system and one that delivers university courses(*4). This also includes those who are expected to complete their studies by Sep. 30, 2020.

*4 Applies only to those who have completed a 15-year course as part of school education in the relevant foreign country.

(10) Those who are recognized by the Graduate School as having graduated from a university through the qualification examination and those who have an academic ability equal to or beyond that of a university graduate and are also 22 years of age by Sep. 30, 2020.

(11) Those who are recognized by the Graduate School as having graduated from a university through the qualification examination and those who have an academic ability equal to or beyond that of a university graduate.

[For admission in Apr. 2021]

The same conditions above, but the date "Sep. 30, 2020" should be replaced with "Mar. 31, 2021".

Note:

Any applicant who meets the above conditions (9), (10) or (11) must first follow the procedure for qualification as specified in "5. Qualification Screening".

3. Application Submission Period

[For admission in Sep. or Oct. 2020]: Jul. 27–29, 2020
[For admission in Apr. 2021]: Dec. 8–10, 2020

Notes:

(a) Admissions Office in Nakamozu Campus is open 10:00–12:00 and 13:00–15:00.
(b) Please submit materials either by post or by bringing them to the Admissions Office directly. Materials submitted by post must arrive during the reception period.
(c) <u>You are recommended to consult with your prospective supervisor before submitting your application.</u>

4. Application Procedure

1	Application for admission etc.		
		Application for Admission	Use the form specified by the Graduate School of Life and Environmental Sciences.
		Entrance Examination Card	Make sure all the items are filled in.
		Photo Card	Paste the Photo (4cm×3cm) taken within 3 months.
		Sheet to affix the postal transfer payment receipt of the examination fee	Affix the postal transfer payment receipt on the enclosed sheet to be submitted with the application. Your application will be rejected if the examination fee has not been paid by the deadline or if the postal transfer payment receipt is not presented along with your application documents or if no post office date of payment is stamped on the receipt.

2	Examination fee	**¥ 30,000** At a post office counter, please pay the fee using the postal transfer payment slip provided by Osaka Prefecture University from one week before the deadline of your written application until the deadline date. NOTE: Payment cannot be made by cash or with a postal money order. Payment cannot be made by ATM (automatic teller machine) remittance.
3	Certificate of graduation (completion) or prospective certificate (documents certifying eligibility for application)	Documents certified by the last university attended by the applicant stating that the applicant has received the degree or expects to receive the degree.
4	Academic transcript	Transcripts certified by the last university attended by the applicant, including the number of credits and grades of subjects taken. Those who have entered through college transfers must also submit a transcript from the educational institution they were enrolled in before the transfer.
5	Letter of recommendation	Letter of recommendation written by the president or principal of your most recent academic institution or your academic supervisor at your most recent academic institution.
6	Applicant's Background and Curriculum Vitae	Use the form specified by the Graduate School of Life and Environmental Sciences. You can download the form from the University website.
7	Copy of residence card	Please submit photocopies of both sides of residence card. Overseas residents must submit a photocopy of their passport (page with photo).
8	Return envelope (applicants by mail only)	If you are applying from Japan, please enclose a self-addressed envelope with ¥404 postage attached.

Notes:

(a) When sending application materials by post, please be sure to send them as registered mail (express delivery), with "Application for Admission to the Graduate School of Life and Environmental Sciences Enclosed" written in red ink on the envelope.
(b) Original copies of the above certificates are required for application. Copies will not be accepted.
(c) Incomplete applications may not be accepted.
(d) Changes to the matters stated will not be accepted after the application procedure.
(e) Individuals who have completed the application procedure will be provided with an "Entrance Examination Card" and "Rules to Observe When Taking Examinations".
(f) If the applicant is disabled, or if for any other reason the applicant wishes to request any consideration during the entrance exam or after enrollment, please contact the Admissions Office.
E-mail: nyushi3@ao.osakafu-u.ac.jp
(g) Examination fees will not be returned except under the following circumstances:
- You wish to withdraw your application to Osaka Prefecture University.
- Your application documents and other items are rejected because they are incomplete or insufficient.
- You have inadvertently made a double payment of the entrance examination fee.

NOTE: Should any of the above applies, you should submit a refund request to the Admissions Office of Osaka Prefecture University no later than one month after the application deadline.

5. Qualification Screening

If you meet the conditions (9), (10) or (11) described in "2. Qualification for Admission," submit the following documents to obtain qualification before submitting your application:

You are required to inform your prospective supervisor of your application before submitting your documents.

(1) Documents to be submitted

(a) Applicants who come under the application qualifications (9) a
- Applicant's Background and Curriculum Vitae (Use the form specified by the Graduate School of Life and Environmental Sciences.)
- Certificate of student status
- Academic transcript
- Material to gain an understanding of the course content taught at the university the student is

currently enrolled in

(b) Applicants who come under the application qualifications (9) b, (9) c or (9) d
- Applicant's Background and Curriculum Vitae (Use the form specified by the Graduate School of Life and Environmental Sciences.)
- Certificate of completion or a document certifying expected completion
- Academic Transcripts
- Material to gain an understanding of the course content taught at the university the student is currently enrolled in
- Research Background (Use the form specified by the Graduate School of Life and Environmental Sciences.)

(c) Applicants who come under the application qualifications (10) or (11)
- Applicant's Background and Curriculum Vitae (Use the form specified by the Graduate School of Life and Environmental Sciences.)
- Certificate of graduation (completion)
- Academic Transcripts
- Research Background (Use the form specified by the Graduate School of Life and Environmental Sciences.)

※You can download the form from the University website.

(2) Submission Date

[For admission in Sep. or Oct. 2020]: Jun. 29– Jul. 1, 2020
[For admission in Apr. 2021]: Nov. 9–11, 2020

Note: (a) Admissions Office in Nakamozu campus is open 10:00–12:00 and 13:00–15:00.
(b) When sending application materials by post, please be sure to send them as registered mail (express delivery). All materials must arrive during the reception period.
Please write "Qualification Screening Materials for Application to the Graduate School of Life and Environmental Sciences Enclosed" in red ink on the envelope.

(3) To be submitted to
Admissions Office

(4) Result of the application qualification screening
The results of the qualification screening will be sent out by mail.

Note: If you are asked to submit other documents, please provide them immediately.

6. Examination Date and Location

Examination date		Examination subjects	Examination time	Examination locations
For admission in Sep. or Oct. 2020	For admission in Apr. 2021			
Aug. 25, 2020	Jan. 5, 2021	Special subject (Written examination)	13:00–15:00	Nakamozu campus building B11
Aug. 26, 2020	Jan. 6, 2021	Special subject (Oral examination)	10:00–	Nakamozu campus building B11, C17

Refer to the details of the examination will post at the entrance of building B11 at 9 am on the day of the examination.

Spare day

For admission in Sep. or Oct. 2020	Aug. 27, 2020	Due to unexpected circumstances such as natural disasters, the above examination is postponed on the day that is designated.
For admission in Apr. 2021	Jan. 7, 2021	

7. Applicant Selection Method

Academic achievement examination:

You must take a written examination and an oral examination to evaluate your level of academic achievement mainly in your field of specialization.

After considering the results of the academic achievement examination and documents, we will determine whether you will be admitted to our graduate school.

(1) Written examination

Specialized Subject Examination —— You must choose your prospective supervisor from "Outline of the Graduate School of Life and Environmental Sciences (p.11 to14)" and take examination in the Group for examination (A, B, or C) corresponding to your prospective supervisor. Please fill in your chosen Group for examination (A, B, or C) and your prospective supervisor on the application form.

【Division of Applied Life Sciences, Department of Applied Life Sciences】

<table>
<tr><td>Group for Examination</td><td colspan="2">Specialized Subject Examination</td></tr>
<tr><td rowspan="2">A</td><td>Compulsory Subject</td><td>Elective Subjects
(Please elect ONE subject from the following nine elective subjects.)</td></tr>
<tr><td>Questions on Basic Biological Chemistry
(Biochemistry, Molecular Biology, Microbiology, Organic Chemistry, Enzyme Chemistry, Analytical Chemistry, etc.)</td><td>Nutrition Chemistry
Applied Microbiology
Bioresource Chemistry
Food Chemistry
Chemistry of Biological Macromolecule
Natural Products Chemistry
Fermentation Physiology
Synthetic Organic Chemistry
Biophysical Chemistry</td></tr>
<tr><td rowspan="2">B</td><td>Compulsory Subject</td><td>Elective Subjects
(Please elect ONE subject from the following eight elective subjects.)</td></tr>
<tr><td>Basics of Plant Bioscience*
(Questions on the basic knowledge for Plant physiology, Genetics and Biochemistry etc.)

*Visit the following Website to access the explanation for compulsory subjects.
https://www. osakafu-u.ac.jp/en/admission/graduate/</td><td>Applied Biochemistry
Molecular Biology
Genome Biology
Cell Biology
Crop Production Science
Horticultural Science
Plant Genetics and Breeding
Plant Pathology</td></tr>
</table>

【Division of Environmental Sciences and Technology, Department of Environmental Sciences and Technology】

Group for Examination	Specialized Subject Examination	
C	Compulsory Subject	Elective Subjects (Please elect ONE subject from the following nine elective subjects.) ( ); keywords for each subject
	General question on environmental sciences and technology (e.g. environmental problems, which concerns to mankind and various organisms)	Ecological Meteorology (Heat and gas transfers, Meteorology, Climate modification and climate change) Environmental Control in Biology (Plant responses to environment, Interactions between plants and environment, Biomass utilization) Geo-environmental Engineering (Geotechnical Engineering, Greening base, Design and maintenance of facilities) Science and Engineering of Hydrological Environment (Hydrological cycle, Water quality, Watershed and irrigation management, Water and soil) Environmental Engineering in Biological Production (Instrumentation technology, Bioproduction engineering, Management of bioproduction environment, System engineering in bioproduction environment) Landscape Planning and Design (Urban and rural landscape design, Open space planning, Urban park planning and design) Landscape Architecture and Conservation (Conservation ecology, Vegetation management, Nature restoration) Regional Landscape Management (Regional environment management, Symbiosis with landscape ecology, Environmental education) Environmental Entomology and Zoology (Insect systematics, Insect physio-ecology, Animal ecology, Conservation of biodiversity)

(2) Oral Examination

Details will be announced in the examination room.

8. Announcement of Examination Results

Time and date of announcement:

[For admission in Sep. or Oct. 2020]: 13:00 of Sep. 7, 2020

[For admission in Apr. 2021]: 13:00 of Jan. 19, 2021

- The assigned numbers of the successful applicants will be posted on the bulletin board at the front entrance to Building A3. In addition, we will notify every successful applicant of the results of the entrance examination by postal mail.
- The assigned numbers of the successful applicants will also be listed on the website of this University in Japanese.
- Do not contact us directly for the results of your entrance examination; we cannot provide the results individually.

Note:

Applicants other than 'those who have completed 15 years of course work in a foreign country' who wish to enroll in the Graduate School in accordance with application qualification (9) will be treated as a provisionally accepted applicant. The provisionally accepted applicant must provide a transcript which shows the results achieved up to the third year of study. This can either be sent by post (registered post) or submitted in person to the entrance examination room of the Education Promotion Division by Mar. 2, 2021. (If sent by post it must arrive by this day. It is not necessary for students enrolled in the Life Environment Science Area to provide the transcript.)

Those who have passed the final grades examination after presenting the above certificate will be regarded as successful candidates. The others will be regarded as unsuccessful applicants. An official list of the successful applicants will be posted on the bulletin board in front of the A3 building on Mar. 11, 2021 at 13:00. The successful applicants will also be notified.

9. Enrollment Procedures

(1) Date of Enrollment

[For admission in Sep. or Oct. 2020]: Sep. 26, 2020

Note: Date of enrollment of those who meet application qualification during Sep. 26 to 30, 2020 will be Oct. 1, 2020.

[For admission in Apr. 2021]: Apr. 1, 2021

(2) Enrollment Procedures

You must take the enrollment procedures during the following period:

[For admission in Sep. or Oct. 2020]: Sep. 16–17, 2020

[For admission in Apr. 2021]: Mar. 26–27, 2021

Application procedures will be accepted 9:30–12:00 and 13:00–15:00.
Details regarding procedures will be sent to successful applicants.
For those who have not completed the admission procedures it will be considered that their admission has been cancelled. Please be sure to bring the admissions procedure documents. Documents sent by mail will not be accepted. Admission procedures can be done by proxy.

10. Enrollment Fee and Tuition Fee

(1) Enrollment fee

(A) ¥282,000, (B) ¥382,000

[Fees (A) and (B) are subject to change.]

- Enrollment fee (A) applies if you, your spouse, or one of your relatives of the first degree of kinship have been a resident of Osaka Prefecture more than one year: that is, a resident since the day before Sep. 26, 2019 for admission in Sep. 2020 or a resident since the day before Apr. 1, 2020 for admission in Apr. 2021.

Note: For those who meet applicant qualification during Sep. 26 to 30, 2020: the enrolled student who has been residing in Osaka Prefecture prior to Oct. 1, 2019.

- Enrollment fee (B) applies in all other cases.
- The enrollment fee must be paid before the enrollment procedures.
- The enrollment fee is not refundable under any circumstances.

(2) Tuition fee

¥535,800 annually (payable in two installments following enrollment)

(If the tuition fee is changed while you are enrolled in the university, you are responsible for paying the revised tuition fee.)

11. Regarding the Long-Term Study System

(1) Purpose

This system is intended for students for whom it will be difficult to complete a curriculum within a standard term of study (2 years for master's program) owing to various circumstances such as holding

down a job, and makes it possible for them to obtain a degree by taking longer than the standard term to study intentionally and complete the course.

(2) Applicant qualification
Individuals who meet any of the following conditions may submit the "Long-term Study Permission Request" to apply for long-term study.
  (a) Applicants who have a job and work.
  (b) Applicants who have circumstances of child care, caregiving, or other responsibilities.
  (c) Applicants who have any other matters deemed necessary by our dean.

(3) Term of study
The period of long-term study system for master's program students is 3-, or 4-years, which shall be approved individually.
Students who wish to shorten their period of long-term study because of the dissolution of the conditions above must submit "Reduction in the Period of Long-term Study Request" by the deadline.

(4) Tuition fees under the long-term study system (annual amount)
The fee shall be the figure obtained by multiplying the regular annual tuition fee by the number of years corresponding to the standard term of study, and dividing that by the number of years approved for long-term study. (Should tuition fees be revised while the student is enrolled at the university, the new tuition fees shall apply to enrolled students as well.)
If a reduction in the period of long-term study has been approved, the student must make up the difference from the original tuition fee.

(5) Period for submitting the request form
At the time of filling the application form for the entrance examination, please submit "Long-term Study Permission Request".

(6) Permission for long-term study
Permission for long-term study and abbreviation of the period of long-term study are determined after discussions among the faculty of the Graduate School.

(7) Please be sure to get in touch with us if you have any questions or anything regarding long-term study to the Education Affairs Division at the Osaka Prefecture University (desk for Graduate School of Life and Environmental Sciences, Tel.: 072-254-9401/Int'l call: +81-72-254-9401).

Note: Applicants who wish to apply for long-term study should consult beforehand with their prospective supervising professor.

12. Status of residence (for those who are not Japanese nationals)

Status of Residence under the Immigration Control and Refugee Recognition Act (hereinafter "Status of Residence"). If a person without Study Abroad Status of Residence is permitted to enter the Graduate School, they must obtain such status without delay. In addition, those who have a Status of Residence other than Study Abroad status must change it to Study Abroad. However, those who have the following Status of Residence: Permanent Residency, Fixed-term Residency, Diplomatic Residency, Spouse of a Japanese National etc. do not need to take any further action. Only those who wish to change their Status of Residence to Study Abroad status because of scholarships etc. should follow the necessary procedures.

13. Privacy Policy & Website Notices

(1) The second semester starts from Sep. 26, and the classes are open for those admitted in Oct. 1.

(2) We will use the personal information we obtain from your application for selection purposes only; we will not use it for any other purposes. However, your results of entrance examination may be used for purposes related to education and student life.

(3) If a natural disaster or other circumstance leads to postponement or cancellation of the entrance examination as scheduled, we will post an Emergency Notice in Japanese on the following website:
<https://www.osakafu-u.ac.jp/>

14. Inquiries

For additional information and clarifications, please contact the Admissions Office at the following address:

Admissions Office,
Osaka Prefecture University
1-1, Gakuen-cho, Naka-ku, Sakai, Osaka, 599-8531, Japan

For detailed information on the entrance examinations,
visit the website of Osaka Prefecture University.

This website will also list the assigned numbers of applicants who have passed the entrance examinations. (In Japanese)

Website of Osaka Prefecture University
(Information on entrance examinations)
<https://www.osakafu-u.ac.jp/admission/>

Outline of the Graduate School of Life and Environmental Sciences

【Division of Applied Life Sciences】

The Division of Applied Life Sciences aims to research various functions and life processes occurring among animals, plants, and microorganisms by fully utilizing bioscience and biotechnology techniques. Our objective is to develop applied technologies through collaboration and competition in various domains of advanced life sciences. To achieve this objective, this division carries out education and research related to the bioscience of animals, plants, and microorganisms in order to develop useful resources and to develop talented researchers who will make further contributions to the development of new biotechnologies.

(As of April 1, 2020)

＜Group for Examination: A＞

Status	Name	Research and Education Fields
Professor	AKIYAMA Kohki	Chemical identification and functional analysis of signalling molecules involved in the development of mycorrhizal symbiosis
Professor	INUI Takashi	Drug delivery system by transporter protein, Enzymes for the biosynthesis of nucleic acids in parasite, Identification of allergen proteins
Professor	KATAOKA Michihiko	Screening and application of microbial enzymes to the production of useful compounds
Professor	KAWAGUCHI Takashi	Screening and utilization of microbial functions, Molecular genetics of microorganisms
Professor	SAKAMOTO Tatsuji	Functional analysis of microbial polysaccharidases, Biotechnological utilization of plant biomass
Professor	TANIMORI Shinji	Organic and Bioorganic Chemistry, Chemical Biology, Organometallic Chemistry, Heterocyclic Chemistry
Professor	WATANABE Yoshiyuki	Process engineering for effective use of food materials
Professor	YAMAJI Ryoichi	Nutrients-sensing signal transduction, Nuclear receptor signal in molecular nutrition, Functional food factors and skeletal muscle
Associate Professor	AKAGAWA Mitsugu	Food biochemistry, Oxidative modification of biomolecules, Regulation of oxidative stress by functional foods
Associate Professor	FUJIEDA Nobutaka	Creation of enzymes, pepzymes, and nanozymes
Associate Professor	HARADA Naoki	Metabolic diseases, Androgen signaling, Molecular nutrition
Associate Professor	ISHIBASHI Osamu	Non-coding (nc) RNAs and ncRNA-associated proteins, Bone metabolism, Reproductive endocrinology
Associate Professor	KAI Kenji	Bioactive natural products chemistry, Chemical communication among microbes
Associate Professor	KISHIDA Masao	Analysis of available yeast strains which bred by gene-activation mutagenesis and cell fusion
Associate Professor	SONODA Motohiro	Designing and synthesis of bioactive compounds, Synthesis of fused heteropolycyclic compounds
Associate Professor	SUMITANI Jun-ichi	Functional improvements of carbohydrate hydrolases and diagnostic Enzymes from microorganisms, Regulatory mechanisms of their genes
Associate Professor	TANI Shuji	Fungal genetics, Gene regulation, Polysaccharide-degrading enzymes
Associate Professor	UEDA Mitsuhiro	Biomass, Biological waste treatment, Bioenergy, Biotransformation, Bioremediation
Lecturer	NAKAZAWA Masami	Biochemistry and gene manipulation of *Euglena gracilis*
Assistant Professor	HIBINO Takeshi	Kinetics & Protein Engineering (especially of Adenylate kinase), Enzyme Chemistry, Biophysics
Assistant Professor	MIURA Natsuko	Enzyme evolution, Molecular basis of microbial metabolic regulation under stress
Assistant Professor	NISHIMURA Shigenori	Kinetic study and structure biology of amylase and related enzymes

＜Group for Examination: B＞

Status	Name	Research and Education Fields
Professor	AOKI Koh	Functional genomics of vegetable crops. Cell-to-cell communication in the co-construction of junction tissues between the parasitic plants and their hosts.
Professor	IMAHORI Yoshihiro	Metabolic regulation on fruit and vegetables, Hypoxic stress, Cold stress, Ascorbate metabolism
Professor	KOIZUMI Nozomu	Plant molecular breeding, Metabolic engineering, Regulation of gene expression in plants, Risk communication of GMO
Professor	OHTA Daisaku	Cytochromes P450, Metabolomics Molecular Biology, Molecular Genetics, Biochemistry
Professor	SUGIMOTO Kenji	Multicolor live cell imaging of mitotic cell division of mammalian cell-line; Molecular and Cellular Biology
Professor	TAKANO Junpei	Plant Nutrition, Regulation of nutrient transporters
Professor	TOJO Motoaki	Plant pathology, Crop protection, Taxonomy and epidemiology of oomycetes plant pathogens
Professor	YOKOI Shuji	Plant Breeding, Characterization of phase change in plants
Associate Professor	INADA Noriko	Molecular mechanismsr of plant and pathogenic microbe interactions
Associate Professor	IWATA Yuji	RNA-mediated regulation of gene expression and its application in plants
Associate Professor	MISHIBA Kei-ichiro	Genetic engineering of ornamental plants, Mechanisms of transgene silencing in higher plants
Associate Professor	MOCHIZUKI Tomofumi	Molecular mechanisms of viral pathogenicity and adaptation
Associate Professor	OGATA Yoshiyuki	Bioinformatics and its application to plant genomics and metabolomics
Associate Professor	OHE Masamichi	Stable, high yielding and safe cultivation methods of paddy rice, Food crop science, crop physiology and crop ecology
Associate Professor	OKAZAWA Atsushi	Chemical, biological, and biotechnological control of parasitic weeds, Metabolic engineering of useful plant specialized metabolites
Associate Professor	SHIOZAKI Shuji	Pomology, Chemical regulation of fruits development and quality, Development of bioactive compounds in fruits, Propagation of wild Grapes
Associate Professor	YAMAGUCHI Yube	Defense response against biotic and abiotic stress in crops, and its impact on food production
Lecturer	FURUKAWA Hajime	Studies on plant physiology using gene expression analysis
Lecturer	MATSUMURA Atsushi	The role of soil microbial nutrient cycle in crop production
Lecturer	OGAWA Takumi	Molecular plant-microbe interactions, Metabolomics
Lecturer	TEZUKA Takahiro	Plant breeding, Analysis of reproductive isolation (especially hybrid lethality) observed in wide hybridization, Development of DNA markers
Lecturer	WADA Teruo	Vegetable crop sciences, Hydroponics, Soilless culture, Plant factory
Assistant Professor	FUKADA Takashi	Molecular cell biology of mammalian cells, mainly on their response to mechanical stimuli and role of cytoskeletal structures
Assistant Professor	YANASE Masanori	Plant breeding and propagation

【Division of Environmental Sciences and Technology】

The Division of Environmental Sciences and Technology serves research, focusing on ecological, physical and engineering methodologies for the purpose of contributing to sustainable development of urban areas, development of a recycling-oriented society, and conservation of biodiversity. This division equips researchers with high-level expertise and research abilities related to environmental sciences through the following techniques:

1. Technological development and implementation of techniques for measuring, diagnosing, and evaluating interactions among elements of the natural environment (atmosphere, water, soil, and life) and human activities, and for control and management of the environment
2. Technological development and implementation of landscape planning, landscape management, ecological design, conservation ecology, vegetation restoration, and social science to conserve and construct healthy urban environments and green spaces.

(As of April 1, 2020)

＜Group for Examination: C＞

Status	Name	Research and Education Fields
Professor	FUJIWARA Nobuo	Revegetation technology, Mitigation, Waterfront restoration, Cultural landscape, Global warming
Professor	HIRAI Norio	Animal ecology, Biological interaction, Biodiversity, Life history of insects
Professor	HORINO Haruhiko	Hydrological cycle, Multi-functional roles of agricultural production system, Sustainable management of water environment
Professor	IMANISHI Junichi	Landscape management, Development of regions based on nature, history and culture
Professor	KAGA Hiroyuki	Landscape planning and design, Environmental planning, Open space management by citizen
Professor	KITAYA Yoshiaki	Conservation of natural ecosystems, Bio-regenerative life support systems, Sustainable agriculture systems
Professor	YAMADA Hiroyuki	Urban climate, Micrometeorology, Thermal environment, Urban greenery
Associate Professor	AONO Yasuyuki	Urban climatology, Heat budget analysis, Satellite remote sensing, Climatic analysis of plant phenology
Associate Professor	HIRAI Hiroaki	Development of plant production and management technique
Associate Professor	KIMATA Takashi	Environmental geotechnology, Material science and engineering, Soil mechanical testing, Numerical analysis
Associate Professor	NAKAGIRI Takao	Conservation of water resources and the environment, Hydrological cycle, Hydrology, Basin water management
Associate Professor	NAKAMURA Akihiro	Revegetation, Biodiversity, Environmental effects, Forest management
Associate Professor	NISHIURA Yoshifumi	Systematization and robotization for environment-conscious bioproduction, Bioinstrumentation and control engineering, Phytotechnology
Associate Professor	SHIBUYA Toshio	Plant–environment interactions, Responses of plants to environmental stresses, Controlled-environment horticulture
Associate Professor	TAKEDA Shigeaki	Landscape planning and design, Residential environmental planning, New town revitalization
Associate Professor	TANIGAWA Torahiko	Conservation of global water resource and the environment, Subsurface irrigation, Soil
Associate Professor	UEYAMA Masahito	Meteorological observation, Remote sensing, Micrometeorology, CO_2 gas exchange, Ecosystem modeling
Lecturer	ENDO Ryosuke	Biomass utilization in plant production for sustainable agriculture, Non-destructive imaging analysis for evaluation of plant responses
Lecturer	SAKURAI Shinji	Substance behavior in the water-soil-plant systems, Hydrological cycle, Management of water quality, Environmental conservation in basin water
Assistant Professor	KUDO Yosuke	Landscape of structures, Multifunctionality, Performance-based design, Maintenance for infrastructures
Assistant Professor	MATSUO Kaoru	Landscape planning and design, Ecological Planning, Urban Environment, GIS

Assistant Professor	OTSUKA Yoshitaka	Environmental and human health science, Urban green space and public health, Horticultural therapy, Behavior modification
Assistant Professor	UEDA Moeko	Vegetation landscape, Coastal open space, Local culture, Historic greenery
Assistant Professor	UEDA Shouhei	Evolutionary biology, Molecular phylogenetics, Conservation biology, Coevolution, biological interaction