Graduate School of Science and Technology Doctoral Program

April 2024 Admission Application Guidelines

(General/Adult/International Student Entrance Exam)

Application Period	From Monday, November 13, 2023 to Friday, November 17, 2023
Examination Date	Friday, December 15, 2023
Announcement of Successful Applicants	Tuesday, January 16, 2024

*All dates and times described in this application guidelines are based on Japan Standard Time.



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[Inquiries]

 Entrance examination and admission procedures Admissions and Graduate School Section Telephone: 0277-30-1037/1039
 E-mail: kk-kogaku6@jimu.gunma-u.ac.jp

Admission fee/ tuition fee exemption and scholarships
 Student Support Section
 Telephone: 0277-30-1042/ 1047/ 1024
 Email: t-gakuseisien@jimu.gunma-u.ac.jp

■Visa and housing for international students Student Support Section Telephone: 0277-30-1023/ 1024 Email: t-gakuseisien@jimu.gunma-u.ac.jp

Gunma University Graduate School Admission Policy

We seek the following applicants

We seek applicants who have academic skills and capabilities required by the graduate schools or institutes according to their programs or specialties. Applicants should be motivated to contribute to the development of society through research and practice.

1 Number of admissions

Subject	Domain	Number of Admissions
Science and Technology	Materials and Bioscience	
	Mechanical Science and Technology	
	(including special programs – see Note 1)	
	Environmental Engineering Science	25 seats
	(including Double Doctoral Degree Program in Civil	
	and Environmental Engineering – see Note 2)	
	Electronics and Informatics, Mathematics and Physics	

*The number of admissions includes a few adult entrants, partner graduate school entrants, and international student entrants in each domain.

*Applicants who want to take the Program for Cultivating Global Leaders in Heavy Ion Radiotherapy, Science and Technology (Heavy Ion Medical Engineering Course) must submit Form 8 in consultation with their academic advisor. See page 13 for more information on this program.

- Note 1) In the 2022 academic year, we established the special program "Education Program on Intelligence and Control for Developing Human Resources in Japanese Companies" and started accepting applicants in the Mechanical Science and Technology Education Program (Master's Program) and the Domain of Mechanical Science and Technology (Doctoral Program). This program accepts Japanese students as well as international students. See page 14 for more information.
- Note 2) In academic year 2024-2025, we will be establishing a double doctoral degree program in collaboration with Deakin University, Australia. See page 15 for more information.

Purpose of the Adult Entrance Exam

The objective of the Doctoral Program is to develop doctoral students with the research capabilities necessary for engagement in creative and practical research and development as leaders of technical innovators. Furthermore, it aims to develop students who possess the capacity and fundamental knowledge to adapt flexibly to a wide range of research fields. On the basis of this purpose, the Adult Entrance Exam has been introduced for applicants who have achieved highly evaluated results in their current posts at various research facilities, education institutions, or businesses and who possess suitable academic ability and expertise for doctoral study, with the aim of continuing advanced academic training and acquiring a doctoral degree.

2 Application requirements

<General Entrance Exam>

Applicants must fulfill the following requirements:

- (1) Having acquired a Japanese master's (*shuushi*) or professional (*senmonshoku*) degree or expecting to do so by the end of March 2024
- (2) Having been awarded a degree in a foreign country that is equivalent to a master's or professional degree or expecting to receive one by the end of March 2024
- (3) Having completed a course and having acquired a degree equivalent to a master's or professional degree at an educational facility in Japan that is recognized as offering a graduate course in a foreign country under the school education system of that foreign country and that is separately designated by the Minister of Education, Culture, Sports, Science and Technology or expecting to do so by the end of March 2024
- (4) Having been awarded, while in Japan, a degree equivalent to a master's or professional degree by taking a correspondence course of study offered by a school in a foreign country or expecting to receive one by the end of March 2024
- (5) Having completed a course at the United Nations University and having been awarded a degree equivalent to a master's degree

- (6) Having taken a course at a school in a foreign country, an education facility as specified in (3) above, or the United Nations University, having successfully passed a Ph.D. candidacy examination or the equivalent, and being recognized as having academic ability equal to or greater than that of a person with a master's degree
- (7) Having been designated by the Minister of Education, Culture, Sports, Science and Technology (Public Notice of the Ministry of Education No. 118, 1989) as follows:
 - ①A person who has graduated from university and has been engaged in research for two years or more at a university, research institution, etc. and who is recognized by this Graduate School as having academic ability equal to or greater than that of a person with a master's or professional degree based on the results of the said research or other reason
 - ⁽²⁾A person who has completed 16 years of school education in a foreign country or who has completed 16 years of education by distance learning as provided by a school in a foreign country, and has been engaged in research for two years or more at a university, research institution, etc. after that, and who is recognized by this Graduate School as having academic ability equal to or greater than that of a person with a master's or professional degree based on the results of the said research or other reason
- (8) Having attained the age of 24 years by the end of March 2024 and being recognized as having academic ability equal to or greater than that of a person who has acquired a master's or professional degree through an individual entrance qualifications assessment by this Graduate School

<Adult Entrance Exam>

To be eligible to take this exam, the applicant must be, as of April 2024, a technician or researcher employed at a research facility, educational institution, private company, etc. who will keep that status after entrance and who fulfills one of the application requirements (1) to (8) above.

<International Student Entrance Exam>

To be eligible to take this exam, the applicant may not be a Japanese national and must have residence status (or be expected to have residence status) pursuant to the Japanese Immigration Control and Refugee Recognition Act such that there is no obstacle to university entry. Furthermore, the applicant must not have permission for permanent residence in Japan and must fulfill one of the application requirements (1) to (8) above.

3 Assessment of eligibility for application

Applicants who intend to apply under application requirement (7) or (8) above must undergo an entrance qualifications assessment and obtain approval to applying. Applicants wishing to undergo this assessment should submit the documents shown below to the Admissions and Graduate School Section by Thursday, November 2, 2023 (documents received after this date will not be accepted). Applicants will be notified individually of the results of the entrance qualifications assessment by Monday, November 13, 2023.

	Documents to be submitted	General	Adult	International student
1	Entrance qualifications assessment application form (Assessment 1)	0	0	
2	Entrance qualifications assessment application form for international students (Assessment 2)			0
3	Statement of purpose (Assessment 3)	0	0	0
4	CV (Form 2)			0

5	Graduation certificate		0	0
6	Academic transcript		0	0
\bigcirc	⑦ Research results list (Form 5)*		0*	0*
8	(8) Certificate of research activities (Assessment 4)*		0*	0*
9	Summary of past research (around 2,000 characters in Japanese or around 500 words if written in English)		0	0
10	Copy of academic papers (for those who have published academic papers)*		0*	0*

Documents indicated by an asterisk () to be submitted only if applicable.

Address for the submission of the above application documents:

Admissions and Graduate School Section,

School of Science and Technology, Gunma University

1-5-1 Tenjin-cho, Kiryu-shi, Gunma 376-8515

4 Application procedures

(1) Application period and entrance examination fee payment period

Item	Period
Period for online registration and payment of entrance examination fee	From 8:30 a.m., Monday, November 6, 2023 to 5:00 p.m., Friday, November 17, 2023 (registration/payment must be completed by this deadline)
Application period (period in which application documents are accepted)	From Monday, November 13, 2023 to Friday, November 17, 2023 (application documents must be received by this deadline)

Important notes

Be sure to send application documents by simple registered express post. The University shall not be responsible for any mishaps if documents are sent by any other method.

When sending application documents, give full consideration to the time required for delivery, so they arrive at Gunma University by Friday, November 17, 2023 at the absolute latest.

In the event of spec

ial circumstances, contact the University as shown below by 5:15 p.m. on Thursday, November 2, 2023. Admissions and Graduate School Section, School of Science and Technology, Gunma University Telephone: 0277-30-1039 / 1037

(2) Online application flowchart and access method





(3) Payment of entrance examination fee

Entrance examination fee: 30,000 yen

*Payment of the examination fee is not required from applicants continuing on to the Doctoral Program following expected completion of a Master's Program at the Graduate School of Science and Technology at Gunma University.

*International students who are funded by the Japanese Government Scholarship at the time of application are exempted from payment of the examination fee. In this case, a document must be submitted to prove this status.

Refer to "How to make a payment of examination fee at convenience store or by credit card" on page 16, and use one of the methods shown below to make your payment. Note that the payee is responsible for any payment processing charges.

a) Paying at a convenience store in Japan

After making payment, detach the "Certificate of Payment" (収納証明書) on the "entrance examination fee / screening fee handling document" (入学検定料・選考料 取扱明細書) issued at the payment counter, and attach them to the designated section on Form 3

b) Paying by credit card

After making payment, print out the "entrance examination fee / screening fee handling document" (入学検 定料・選考料 取扱明細書), detach the "Certificate of Payment" (収納証明書) portion of the document, and attach it to the designated section on Form 3.

(4) Refunding the entrance examination fee

As a general rule, entrance examination fees cannot be refunded.

However, if the applicant does not apply to Gunma University after submitting the examination fee, or if the application is not accepted due to a problem with the documents, or in cases in which an amount greater than the specified amount is transferred due to a duplicate payment or for other reasons, a refund will be made pursuant to the following procedures. Any payment processing charges will be deducted from the amount refunded.

To request a refund, use your own paper to produce an entrance examination fee refund application containing the following details (A to E), and send it by postal mail to the School of Science and Technology Accounting Section.

- A. Reason for refund request
- B. Full name (furigana)
- C. Address and postal code

D. Contact telephone number

E. Education program to which you applied

Address for refund requests:

Accounting Section (Kaikei-gakari), School of Science and Technology, Gunma University

1-5-1 Tenjin-cho, Kiryu-shi, Gunma 376-8515

Telephone: 0277-30-1068

(5) Exemption from the entrance examination fee

As a special provision, applicants affected by disasters, such as the Great East Japan Earthquake or a typhoon, etc., are exempted from the total amount of the examination fee.

[Eligibility for examination fee exemption]

1. Special provisions related to the Great East Japan Earthquake

- 1) An applicant affected by the Great East Japan Earthquake in the region in which the Disaster Relief Act applies and to whom any of the following apply:
 - ① An applicant with regard to whom the home owned by the person paying his or her school fees was either completely destroyed, mostly destroyed, partially destroyed, or washed away
 - ② An applicant with regard to whom the person who would have been responsible for paying his or her school fees has died or is missing
- 2) An applicant for whom the home residence of the person paying his or her school fees is in the designated "Restricted area," "Planned evacuation area," "Difficult-to-return zone," "Restricted residence zone," or "Zone in preparation for the lifting of the evacuation order" due to the incident that occurred at the Fukushima Daiichi Nuclear Power Plant

2. Special provisions related to typhoons, etc.

- 1) An applicant affected by a typhoon or other disaster, in a region in which the Disaster Relief Act applies, that occurred within one year of the application deadline and to whom any of the following apply:
 - ① An applicant with regard to whom the home owned by the person paying his or her school fees was either completely destroyed, mostly destroyed, partially destroyed, or washed away
 - ② An applicant with regard to whom the person who would have been responsible for paying his or her school fees has died or is missing
- Regarding the "Regions subject to the Disaster Relief Act" for disasters, such as typhoons, as specified by Gunma University, please refer to the University website (Admission information > Tuition and scholarchips (入試情報>学費・奨学金)).

Applicants to whom the above information applies should download the "Application for exemption from examination fee" from the University website (Admission information > Tuition and scholarchips (入試情報>学費・奨学金)) and enclose the relevant documents along with their admission application documents. For inquiries about the submission of documents, please contact the Admission Section, Gunma University between 8:30 a.m. and 5:15 p.m. on weekdays (Telephone: 027-220-7149).

Admission information > Tuition and scholarchips (入試情報>学費・奨学金) URL: https://www.gunma-u.ac.jp/admission/adm004/g2167

(6) Application documents

Please note that Gunma University may be unable to accept your application if any documents are missing or incomplete.

	Documents to be submitted	Who should submit	Summary
(]	Auto reply email	All	Print out the reply email you receive after you have finished the online registration.
2	Photograph sheet and exam admission ticket	All	Form designated by Gunma University (Form1). Write your name and the education program you are applying for, and paste your photograph to the form.
3	Academic transcript (undergraduate) (*)	All	This must be an official transcript issued by your previous university. (Original only: copies are not acceptable.) *Attach a translation into Japanese or English if the document is written in a language other than Japanese or English. (If possible, the translation should be done by your previous university.)
4	Academic transcript (master's) (*)	All	 This must be an official transcript issued by your previous university. (Original only: copies are not acceptable.) *Attach a translation into Japanese or English if the document is written in a language other than Japanese or English. (If possible, the translation should be done by your previous university.)
5	Certificate of completion or Certificate of expected completion (*)	All	 This must be an official certificate issued by your previous university. (Original only: copies are not acceptable.) This is not required if the applicant is a graduate of the Graduate School of Engineering or the Graduate School of Science and Technology at Gunma University. *Attach a translation into Japanese or English if the document is written in a language other than Japanese or English. (If possible, the translation should be done by your previous university.)
6	Master's thesis summary	Applicants who have completed a master's course	Using A4 paper, present a summary of the content of your master's thesis in no more than 2,000 characters in Japanese (or no more than 500 words if written in English).
7	Master's course research summary	Applicants who are expected to complete a master's course	Using A4 paper, present a summary of the content of your master's course research in no more than 2,000 characters in Japanese (or no more than 500 words if written in English).
8	Published articles (*)	Relevant applicants	Applicants who have published articles or research results should present a copy of such articles with a result list.
9	Acceptance for entrance exam	Adult Entrance Exam	Form designated by Gunma University (Form 4)
10	Research results list (*)	Adult Entrance Exam	Form designated by Gunma University (Form 5) (These details may also be submitted on A4 paper)
11)	Reason for application	General entrance exam and international students	Form designated by Gunma University (Form 6) (These details may also be submitted on A4 paper; maximum of 1,000 characters in Japanese or 250 words if written in English)

	Documents to be submitted	Who should submit	Summary
12	Reason for application and research proposal	Adult Entrance Exam	Form designated by Gunma University (Form 7) (These details may also be submitted on a sheet of A4 paper; maximum of 1,000 characters in Japanese or 250 words if written in English)
(]3	Application form for Program for Cultivating Global Leaders in Heavy Ion Radiotherapy, Science and Technology	Relevant applicants	Submit this form (Form 8) if you wish to take the Heavy Ion Medical Engineering Course.
14	CV (*)	International students	Form designated by Gunma University (Form 2)
(5)	Confirmation of nationality and residency status	International students	Residence certificate copy (Individual Number not shown) stating nationality, residence status, and period of stay as issued by the mayor of the municipality in which you reside in Japan, or passport copy (showing full name, nationality, residency status and period of stay in Japan), etc. *If you do not have any address in Japan yet, you can submit a copy of your passport (photograph page). You will need to submit a copy of your residence certificate later, during admission procedures.
16	Certificate of success on Ph.D. candidacy examination	Applicants to whom application requirement (6) applies	This must be issued by your previous university.
17	Certificate of examination fee transfer	All	Print out the form designated by Gunma University (Form 3) and attach your "Certificate of Payment" to the designated section on the form.
18	Exam admission ticket mailer	Residents of Japan	A self-addressed business envelope with a 344-yen stamp attached. The envelope size must be 120 mm x 235 mm, called "Nagagata #3 (長形 3号)" in Japan.

Note: 1. Applicants who have passed the entrance qualifications assessment are not required to submit documents marked with an asterisk (*).

2. No changes will be permitted after the University receives your application.

(7) Address for the submission of application documents

Admissions and Graduate School Section School of Science and Technology, Gunma University 1-5-1 Tenjin-cho, Kiryu-shi, Gunma-ken 376-8515

*Send your documents by simple registered express post, using an envelope that can be put in without folding the document of A4 size (such as a Kakugata #2 – 角形 2 号 – envelope). On the front side of the envelope, write "Doctoral Program Application Documents" in red.

*If sending from outside Japan, use a trackable shipping method such as EMS (Express Mail Service).

(8) Exam admission ticket

When the online registration and the contents of the application documents delivered to the University are confirmed and your application is formally lodged, the exam admission ticket will be sent out to you in the exam

admission ticket mailer you provided, by Friday, December 1. Be sure to bring your ticket on the day of the examination.

For applicants residing outside Japan, the ticket will be sent as a PDF file by email. Print out your ticket on white A4 paper, and be sure to bring it on the day of the examination.

*After your ticket arrives, check that details such as the name of the examinee are consistent with the information you provided in your application. If there are any errors, or if the exam admission ticket does not arrive after Friday, December 1, please contact us as shown below.

Admissions and Graduate School Section, School of Science and Technology, Gunma University Telephone: 0277-30-1039 / 1037 E-mail: kk-kogaku6@jimu.gunma-u.ac.jp

5 Prior consultation for applicants with disabilities

Please consult Gunma University in advance before applying if special considerations are required with regard to the examination or for university study due to disabilities.

(1) Consultation period

The period ends on Thursday, November 2, 2023, but we encourage you to consult as soon as possible.

(2) Consultation process

Please submit the Consultation Form designated by the Graduate School of Science and Technology (refer to the School's website: https://www.st.gunma-u.ac.jp/graduate_exam_doctor/) and attach the necessary documents, such as a medical certificate issued by a doctor. If necessary, an interview with the applicant or an authorized representative may be conducted.

(3) Address for the submission of Consultation Form

Admissions and Graduate School Section, School of Science and Technology, Gunma University Telephone: 0277-30-1039 / 1037

E-mail: <u>kk-kogaku6@jimu.gunma-u.ac.jp</u>

6 Screening process

Screening for admission will be determined through an overall assessment including review of submitted documents, an oral examination on the subjects related to research in the domain to which you are applying (including English ability test), and an interview (for a personality test). If it is judged difficult to conduct the oral examination and interview face-to-face, these may be conducted online.

7 Examination schedule and location

(1) Date/time of examination: 1:30 p.m. to 4:30 p.m., Friday, December 15, 2023

In the event that the oral examination and interview are to be conducted online, the date and time will be specified by the doctoral domain to which you are applying, in the period from Monday, December 11 to Friday, December 15, 2023.

(2) Location of examination: Gunma University School of Science and Technology Kiryu Campus

(Refer to the Examination Location Information. Detailed information including examination rooms, etc. will be informed later.)

8 Announcement of successful applicants

A notification of successful exam completion shall be mailed to successful applicants on Tuesday, January 16, 2024. In addition, the exam participation numbers of successful applicants shall be published on the Gunma University School of Science and Technology website (URL : https://www.st.gunma-u.ac.jp/) from 10:00 a.m. on the same day through Friday, January 26. Notices will not be posted on the University campus.

No information on examination results can be provided by telephone.

9 Admission procedures

Information about admission procedures will be provided in early February.

(1) Fees required for admission procedures

Admission fee: 282,000 yen

- Note: a. If the admission fee has been revised at the time of your admission, the revised fee amount will apply.
 - b. Information on how to pay the admission fee will be provided separately.
 - c. Paid admission fees cannot be refunded for any reason.
 - d. Payment of the admission fee is not required from applicants continuing on to the Doctoral Program following expected completion of a Master's Program at the Graduate School of Science and Technology at Gunma University.
- (2) Payments required after admission

Tuition fee: [First semester] 267,900 yen, [Annual] 535,800 yen

- Note: a. If the tuition fee has been revised at the time of your admission or during your time of study, the revised tuition fee amount will apply.
 - b. Information on how to pay the admission fee will be provided separately.
 - c. If desired, the tuition fee (either the first semester's or the full year's fee) can be paid at the same time as paying your admission fee.
 - d. If you have completed the admission procedures and have paid the tuition fee, then decline the offer of admission by Friday, March 29, 2024, you can request to have the paid tuition fee refunded, following specified procedures.

(3) Other expenses

In addition to the admission and tuition fees, the following expenses apply:	
Personal accident insurance for students pursuing education and research:	2,600 yen
Liability insurance for students pursuing education and research:	1,020 yen
(The above two expenses are a mandatory set, totaling	g 3,620 yen)
School association membership fee:	15,000 yen
Total:	18,620 yen

* In addition to these fees, there is the Gunma Daigaku Kogyokai (Alumni Association) membership fee of 50,000 yen for applicants who are not already its members, which brings to total to 68,620 yen. These fees should be paid by postal transfer at a Post Office using the payment handling form provided after you have completed admission procedures.

(4) Regarding the obtaining of "Certificate of Eligibility (COE)"

Those who do not have a Status of Residence are required to obtain a Certificate of Eligibility (CoE). It may take 1-2 months to issue the certificate after application. Please check "在留資格の取得について (About obtaining a Status of Residence)" on the university website (URL/QR code below) in advance, prepare the necessary documents and submit them along with your enrollment procedures. If you are unable to obtain the documents required for a Status of Residence in time, please be sure to complete other enrollment procedures during the period of the enrollment procedure and notify us of the progress of your CoE at that time.

URL : https://www.gunma-u.ac.jp/international The password is "gunma8510"

(5) Admission fee and tuition fee exemption/ deferment

Certain students for whom the payment of school expenses is considered to be exceptionally difficult due to special circumstances may be exempted from paying the admission fee or tuition fee.

A temporary payment deferment may also be obtained by students for whom paying the admission fee or tuition fee by the fixed deadline is considered to be difficult.

If you wish to apply for exemption or deferment, please refer to the "Admission information > Tuition and scholarchips (入試情報>学費·奨学金)" section of the Gunma University website (https://www.gunma-u.ac.jp/).

Inquiries: Student Support Section, School of Science and Technology, Gunma University Telephone: 0277-30-1042 / 1047

(6) Scholarships

To assist students with excellent character and academic results for whom study is difficult due to economic reasons, the Japan Student Services Organization and others offer scholarships and loans for academic support.

If you wish to apply, refer to the "Admission information > Tuition and scholarships (入試情報>学費・奨学金)" section of the Gunma University website (https://www.gunma-u.ac.jp/).

Inquiries: Student Support Section, School of Science and Technology, Gunma University Telephone: 0277-30-1042 / 1047

10 Academic year

The academic year starts on April 1 of each year and ends on March 31 of the following year.

11 Special education methods

The following special education methods may be applied to students admitted through the Adult Entrance Exam, if requested.

(1) Special education methods as established in Article 14 of the Standards for Establishment of Graduate Schools Article 14 of the Standards for Establishment of Graduate Schools stipulates considerations for adult education as follows: "In a postgraduate course, appropriate education methods, such as classes or research guidance at night

or at other specified time/period, may be provided when it is recognized that a special educational need exists."

A study plan will be drawn up after the application for special methods has initially been proposed by the student to the supervisor. The student will be permitted to take all of the credits required for course completion (16 credits) at night or outside the standard hours.

For details of how to apply, contact the Admissions and Graduate School Section, School of Science and Technology.

(2) Extended study period system

In the 2008 academic year, based on Article 16-2 of the Gunma University Graduate School Regulations, the Graduate School of Science and Technology introduced a system of extended study periods for students who cannot complete the course without extending the standard course length (two years for a master's program and three years for a doctoral program), on the grounds of limited time available for study and research due to employment or other factors. This system enables eligible students to complete the planned curriculum and earn their degree following advance approval to enroll for an extended study period that exceeds the standard course length. To use this system, students must submit an application, which will be assessed for approval.

Under this system, the study period can be extended to up to four years for a master's program and up to six years for a doctoral program.

12 Notes for international student applicants

- (1) Students admitted under the international student entrance exam are encouraged to undertake preparatory education in English language and Japanese language.
- (2) The International House is an accommodation exclusively for international students. Applicants who would like to be accommodated here should submit an application for accommodation to the Student Support Section of the School of Science and Technology after the examination results have been announced. Accommodation is provided following a screening process.

Inquiries: Student Support Section, School of Science and Technology, Gunma University Telephone: 0277-30-1023 / 1024

13 Protection of applicants' personal information

Gunma University utilizes the personal information of applicants collected from submitted application documents, entrance examination screening processes, and admission procedures. This personal information will be handled in accordance with the Regulations on the Protection of Personal Information Held by National University Corporation Gunma University and used only for the following purposes:

- (1) To screen applicants for admission (including related operations, such as statistical processing)
- (2) As enrolled student data, in the case of applicants who have completed admission procedures: provision of course guidance and student support services, and to collect tuition fees
- (3) To conduct surveys and research for the purpose of university management (including research to improve entrance examinations, survey and analysis of applicant trends, or preparation of statistical data.)

Personal information used when publishing statistical surveys or research results will be processed to ensure that individual identities cannot be ascertained.

In performing the above operations, the University may outsource some tasks to external providers, subject to an agreement concerning the appropriate handling of personal information.

Program for Cultivating Global Leaders in Heavy Ion Radiotherapy, Science

and Technology

(Heavy Ion Medical Engineering Course)

As a treatment method that is able to reduce the burden on the body and provide a high QOL (quality of Life), heavy ion radiation therapy is expected to be important in the future. Gunma University is the only university with a PhD graduate course that has a heavy ion therapy equipment, making it the only university that can provide education research, and human resource training in heavy ion radiation therapy.

Program for Cultivating Global Leaders in Heavy Ion Radiotherapy, Science and Technology has been created to collaborate with Graduate School of Medicine since 2019.

The number of applicants is around two. After enrolling in the master's program, applicants for this program will have a separate examination in September.

This program is a five-year course combined the master's program and doctoral program.

In this degree program, we have established Leading Heavy Ion Radiotherapy, Science and Technology Collaborative Course that integrates medicine and engineering as part of Graduate school of Medicine and Graduate school of Science and Technology. In this way, this program aims to train leaders in the fields of radiation oncology, engineering physics, and medical biology that can function anywhere in the world with an excellent disposition and that have the skill to lead the interdisciplinary advanced medical field of heavy ion therapy across fields of expertise. This course also aims to train research and development leaders in companies developing advanced heavy ion therapy equipment.

* Medical Physics Course

In "heavy ion radiotherapy" using high-energy carbon rays and "IMRT" using X-rays, which are advanced radiotherapy, medical physics researchers and clinical practice who develop and pass on the knowledge of medical physics. Human resources of medical physicists who are active in the field are indispensable. Therefore, we set up a medical physics course in the heavy ion beam medical science and engineering cooperation course to learn both the basics of heavy ion beam medicine and biology, advanced clinical research of heavy ion beam, and development and operation technology of advanced medical equipment, and their characteristics. Comprehensive operation and development of domestic and overseas radiation / heavy ion beam research bases, heavy ion beam therapy facilities, heavy ion beam therapy, or international guidance in the advanced medical device development industry, depending on the central academic field. We train specialists in the field of medical physics who can become people.

《For more information》 Admissions and Graduate school Section School of Science and Technology, Gunma University (Program for Cultivating Global Leaders in Heavy Ion Radiotherapy, Science and Technology) 1-5-1 Tenjin-cho, Kiryu, Gunma 376-8515 Japan TEL:0277-30-1037 Email: kk-kogaku6@jimu.gunma-u.ac.jp

Special program " Education Program on Intelligence and Control for Developing Human Resources of Japanese Companies"

This program started in 2022 by adopting the Ministry of Education, Culture, Sports, Science and Technology's "Special Program for Priority Placement of Government-sponsored Foreign Students". Interested applicants should select the domain of Mechanical Science and Technology (doctoral course) and apply for the "special program" before taking the admission examination.

<< Summary of the program >>

The program aims to acquire excellent international students and develop them into human resources who will be involved in the next-generation intelligence and control technical profession at the forefront of Japanese companies. The international students will acquire expertise in next-generation intelligence and control, including mechatronics, automatic control, artificial intelligence, and data science. They will participate in project research to put them into practice and develop Japanese-style R&D capabilities. In addition, the program will provide preferential treatment for Japanese language education, corporate internships, etc., to support employment in Japanese intelligence and control technology-related companies.

This program accepts both Japanese students and international students.

This program focuses on the mechatronics and intelligence/control fields, which are the strengths of the university's Mechanical Science and Technology department, the hosting department of the program. The contents of education and research are based on the premise of collaboration with Japanese students by forming buddies. Each of the agreement schools planning to recruit undergraduate students must have departmental strengths in science and technology and can hold joint symposiums with Gunma University, project activities for regional innovation, and formulate collaborative research. By participating in these, Japanese students of our university will have the opportunity to grow through collaboration with experts from other countries.

Double Doctoral Degree Programme with Deakin University, Australia (Civil and Environmental Engineering) [Announcement]

A three-year all English graduate doctor's double degree course will start in academic year 2024-2025.

➢ Features

1. Double degrees – a single defense

Students are enrolled in both Gunma University and Deakin University, and will earn 2 separate degrees, 1 from each institution. The PhD is defended in just 1 of the institution participating in the joint supervision agreement, as determined by the two research advisers. A dissertation van be written in English.

2. Research abroad

Students are offered the opportunity to do his/her research at Deakin University during the second year of the programme under the joint supervision of faculty members from both universities.

> Curriculum, requirements for completion

Please visit the link below for more information.

https://www.facebook.com/GunmaCEE/



GUNMA UNIVERSITY

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- Please note that refund is not possible once you have made a payment of Entrance examination fee.

- ●A fee is added to Examination fee. For further info, please visit our website.
- •Please directly contact the credit card company if your card is not accepted.
- It will be announced on our website if either the convenience stores which handle payments or the methods of payment, are changed.

Gunma University Graduate School of Science and Technology (Doctoral Program) Faculty Members and Fields of Specialization

*Please make sure to receive an approval for acceptance from the supervisor before applying.

Faculty Members	Fields of Specialization
Professors	
Naoki Asakawa	 Bio-inspired devices using emergent property found in polymers
Motoko S. Asano	Photophysics and design of photofunctional composite molecular systems
	including coordination compounds
Hideki Amii	• Development of synthetic organic reactions and their applications
Yusuke Inoue	• Functional analysis of the liver-enriched nuclear receptors using gene-targeted mice
Hiroki Uehara	• Development of property and functionality of polymeric materials by drawing techniques
Masafumi Unno	 Organosilicon and organic heteroatom chemistry: molecular design, synthesis, and application
Md. Zakir Hossain	 Chemical modification of epitaxial graphene on SiC substrate
Tetsuo Okutsu	 Physical chemistry, photochemistry and crystal growth
Hiroaki Ozaki	 Development of modified nucleic acids and its application
Ken-ichi Kasuya	 Structure and function of polyester-degrading enzymes, screening of
Ken-teni Kasuya	microorganisms involved in the environmental cleanup
Toru Kyomen	 Solid state chemistry and design of functional oxides
Kiichi Sato	 Development of micro bioanalysis systems
Soshi Shiraishi	
	 Development of carbon-based nanoporous materials and electrochemical capacitors Studies on molecular structures of transient species and complexes consisting of radicals
Yoshihiro Sumiyoshi Masashi Sonoyama	 Studies on molecular structures of transient species and complexes consisting of radicals Biomolecular science, Biophysical chemistry of proteins, Biospectroscopy, Bioinformatics
Masashi Sonoyama Hiroshi Takahashi	
	• Structural analysis and thermal study of model biomembranes
Shigeki Takeda	Functional analysis of receptors, characterization and application of protein self-assembly
Yosuke Nakamura	• Construction and properties of novel π -conjugated systems including
	fullerene chemistry and supramolecular chemistry
Minoru Hanaya	Development and characterization of functional solid-state materials
Jun-ichi Fujisawa	Studies of organic-inorganic hybrid materials for light energy conversions
Ichiro Matsuo	Glycoscience, Glycotechnology, Synthetic study of glycoconjugates
Takako Muraoka	• Studies on unique ligands with heavier typical elements and their transition metal complexes
* Takao Yamamoto	Statistical physics
Associate Professors	
Shinji Iwamoto	• Solvothermal synthesis of inorganic materials and their performance as catalysts
	autoantigens, advanced functional foods for prevention of diseases
Hiroyuki Oku	Synthetic vaccines and diagnosis material; biofunctional chemistry; biomedical
	and functional polymers
Takafumi Shimoaka	Physical chemistry and vibrational spectroscopy on molecular aggregation systems
	transition-metal complexes
Tsuyoshi Takahashi	• Construction and application of functional molecules using peptide and protein engineering
Nobuhiro Takeda	• Synthesis of metal complexes bearing new ligands for the purpose of activating
	small molecules
Yuya Tachibana	Development of biobased and biodegradable polymers
Nobukazu Nameki	Analyses of novel translation regulation mechanisms, and structural bioinformatics
Tomohisa Moriguchi	Development of functional oligonucleotides, chemistry of natural products
Minoru Yamaji	Photophysics and photochemistry of organic and organometallic compounds
Keiichi Yamada	Development of novel bioactive peptides utilizing molecular imaging technique
Toshitada Yoshihara	Photophysical and photochemical studies of aromatic compounds and its
	application for bioimaging
Masaru Yoneyama	Transition metal-catalyzed polymerization, Synthesis of polymers from unutilized resources
Visiting Professors	
Hideki Abe	• Studies on molecular and material design of polymers from biomass organic chemicals
Takayuki Kawashima	Creation of new functional molecules utilizing main group elements
Takeshi Saito	Preparation and evaluation of organic standard reference materials
Noriaki Seko	• R&D of the polymer modification technique by radiation processing
Mitumasa Taguchi	Quantum beam reaction and environmental / medical applied research
Yasunari Maekawa	 Synthesis and structure/property analysis for polymer functional materials
Tetsuya Yamaki	 Nanotechnology Research and Material Development for Application to
	Next-Generation Energy Devices

◆ Domain of Materials and Bioscience

* will retire in March, 2025

◆Domain of Mechanical Science and Technology

Faculty Members	Fields of Specialization
Professors	
Kenji Amagai	Thermo-fluid engineering, Interfacial flow, Atomization, Environmental fluid engineering
Mikiya Araki	Jet engines, Jet noise, Combustion, Spray
Tsuneaki Ishima	• The experimental elucidation for flow, heat and mass transfer and
	laser application for flow including small particle
Ikuo Shohji	Heterophase interface science, micro joining, electronics packaging materials,
	brazing, surface treatment and corrosion of metals
Takaaki Suzuki	 Micromachines and MEMS for bio, optical and IoT applications
Nobuaki Nakazawa	Human interface, biomedical motion control, and motion planning for a robot
Yoshihiko Hangai	Fabrication and mechanical evaluation of porous metals
Yusaku Fujii	Precision measurement, Optical measurement, Electrical-mechanical measurement
Tomohiko Furuhata	Combustion, spray flow, exhaust gas aftertreatment and gas turbines
Shinichi Maruyama	• Vibration analysis and measurements of machines and structures, Nonlinear phenomenon
Takao Yamaguchi	Numerical analysis for dynamics of cars, machines and living bodies,
-	Vibration damping, Sound-proof structure, Acoustic black hole
Ko Yamada	• System control theory and its application, control of machine and robot, and
	intelligent control of the machine
Weimin Lin	Developing a high efficiency ultra-precision polishing machine.
	Reseach for the application of ELID process.
	Creating a desktop processing machine and test.
Associate Professors	
Masahiro Inoue	• Development and characterization of organic/metal/inorganic hybrid materials,
	and their application to novel electronic systems
Atsushi Iwasaki	Structural health monitoring and composite material
Hisanobu Kawashima	• Bubble dynamics, heat and fluid flow measurement, and multiphase flow
Shinji Koyama	Precision bonding, surface hardening, corrosion resistance, wear resistance
Yoshio Zama	Spray flow, Quantitative visualization measurement, Automotive engineering
Ryosuke Suzuki	• Smart manufacturing, IoT utilization, Digital communications, Material testing technology
Akihiro Takita	Optical measurement, Image processing, Social safety, IoT devices
Yuya Tanaka	Characterization of organic materials and their application to semiconductor
	and mechatronic devices
Masato Funatsu	Hypersonic and high-temperature gas dynamics, Thermal protection system for
	space vehicle, Plasma diagnoses by spectroscopy
Iwanori Murakami	• Applied electromagnetics, Actuator, Applied of superconducting levitation, Jumping robot
Md Abdus Samad Kamal	
	and intelligent control and their applications
Visiting Professors	
Tetsushi Kaburagi	IoT technology, Manufaturing technology, Material testing and measurement
Hirohiko Watanabe	Soldering, Evalution of microstructure, Bonding materials for high-temperature
	power electronics

• Domain of Environmental Engineering Science

	Faculty Members	Fields of Specialization
Profe	essors	
	Hideyuki Itabashi	 Speciation and removal of heavy metal ions in the environment
	Takayuki Ohshima	 Applications of pulsed electric field in biotechnology. Development of
		water treatment system with high-voltage devices.
	Jun-ichi Ozaki	 Design and preparation of catalytic carbon materials,
		particularly used in the applications of fuel cell and biomass conversion.
	Mitsuo Ozawa	Fire resistance of concrete, Control of cracking due to volume change in
		concrete at early age
	Shinji Katsura	 Development of manipulation technologies for biological molecules and their
		industry applications
	Masanobu Kanai	Local disaster prevention, evacuation, disaster information, disaster education
*	Yutaka Kawahara	Biomass science, development of bio-based materials and utilization of natural
		fibrous resources
*	Yoshihiko Shimizu	Mechanics of sediment transport, fluvial process in stream with vegetation,
		and river management
	Nobuyoshi Nakagawa	• Development of an efficient liquid fuel cell by means of catalyst preparation and
		by optimizing the electrode structure.
	Akihiko Wakai	Slope failure mechanisms, soil-structure interaction and their numerical simulation
	Tomohide Watanabe	Biological wastewater treatment, microbial and physicochemical degradation of
		water pollutants, Advanced water / wastewater treatment , resource recovery
Asso	ciate Professors	
	Tsukasa Ito	• Water treatment, environmental microbiology and biodegradation of environmental pollutants
	Ken-ichi Uzaki	 A study of regional sediment transport from rivers to coastal regions.
		Development of the calculation model to estimate the sediment discharge of
		river by using the simple model and field data.
	Masahiko Oshige	 Development of bio-molecular manipulation methods and application of reaction
		process analysis by using molecule design techniques
	Fei Cai	Earthquake-resistant measures for ground and earth structures, safety evaluation
		of landslides, and shallow ground thermal energy utilization
	Takahiro Saitoh	 Applied mechanics, computational mechanics and non-destructive evaluation
		for civil engineering structures
	Kazuyoshi Sato	 Synthesis and processing of ceramic materials and application for enegy and
		environmental devices
	Reiji Noda	 Development and evaluation of waste/biomass energy utilization processes,
		Evaluation and design of a local society based on energy/mass flow analysis
	Miyabi Hiyama	 Application of electrostatics on bio-separation and micro-chemical systems,
		development of bio-micro-electromechanical systems
	Hideyuki Morimoto	Development of all-solid-state batteries and novel battery materials
Visit	ing Professors	
	Hiromi Shirai	 Environmental combustion engineering, clean energy conversion engineering
	Naoki Noda	 Environmental combustion engineering, aerosol engineering, energy
		conversion of coal and biomass

* will retire in March, 2025

◆Domain of Electronics and Informatics, Mathematics and Physics

Faculty Members	Fields of Specialization
Professors	
Kazuyuki Amano	 Computational complexity, theory of algorithms, machine learnig
You Yin	Materials and devices for brain-like chip and information storage, nanofabrication, nanometrology
Hiromasa Oku	 Dynamic image control, High-speed image processing, High-speed optical devices
Tsuyoshi Kato	 Bioinformatics, machine learning, and statistical analysis
Tamihiro Gotoh	 Material science for optical devices
Hiroshi Sakurai	 Spintronics, Lithium ion battery, X-ray imaging, medical engineering
Kaoru Shimada	 Evolutionary computation, knowledge discovery and data mining
Koji Jimura	 Human cognitive neuroscience, neuroinformatics, and decision neuroscience
* Yoichi Seki	 Data mining, statistical learning theory and applied data analysis
Hayato Sone	 Nanometer measurement and fabrication, nanoelectronic devices,
	high-sensitive biosensor for medical use, crystal growth
Manabu Takahashi	Theoretical study on electronic properties and magnetism in transition metal compounds
Kazumi Tanuma	Elasticity equations, inverse problems
Shin-ichi Nakano	 Graph algorithm, and Information visualization, optimization
Tatsuya Nagao	Theory of strongly correlated electron system
Seiji Hashimoto	Motion control, system identification, vibration control, precision control, renewable energy
Osamu Hanaizumi	 Devices for optical communication, Microphotonics
Takashi Miwa	Applied measurement for electromagnetic and ultrasonic wave
Kuniyuki Motojima	Radio wave propagation, Wireless measurement, Electromagnetic wave simulation
Yasushi Yuminaka	 Multiple-valued logic and new-paradigm analog/digital integrated circuits
* Shuji Watanabe	 Integral transforms of Fourier type, commutation relations in quantum
	mechanics and their applications
Associate Professors	
Toru Araki	 Graph theory, Graph algorithm, Combinatorial optimization
Syun-ji Ozaki	 The optical properties and electronic energy-band structures of
	nanoatructured semiconductors and ternary compound semiconductors
Ken-ichi Kawanishi	 Information and communication systems, performance evaluation, queueing theory
Nobuyuki Kurita	Magnetic bearing, maglev motor, automatic control engineering, power electronics [Sabbatical leave]
Kosuke Suzuki	X-ray characterization, Backscatter imaging, Electronic structure, Functional oxide,
	Lithium rechargeable battery
Masako Suzuki-Sakamaki	 Synchrotron Science, Surface/Interface Science, Multiferroics
Toshiki Takahashi	 Physics of compact torus plasmas for thermonuclear fusion reactors
Yoshitaka Takahashi	 Optoelectronics and quantum electronics
Yuki Tanaka	High-speed arithmetic algorithm, IoT device and its management system, graph theory
Akito Chiba	Photonics, Optoelectronics
Hirofumi Nagoshi	 Analytic number theory, value-distribution of arithmetic functions
Toshiya Hikihara	 Low-dimensional strongly correlated electron systems,
	quantum spin systems, numerical calculation
* Ken-etsu Fujita	 Logic of programming, programming languages, mathematical logic
Kenta Miura	 Light-emitting materials and devices, Photoelectric devices
Takafumi Miyazaki	 Exponential Diophantine equation, Diophantine analysis
Yoshifumi Morita	 Theoretical study on low dimensional quantum systems and superconductors
Visiting Professors	
Koji Asami	 Measuring and testing techniques for RF, analog and mixed-signal LSIs.
Masahiro Ishida	Testing methodologies for LSI circuits
Tomio Iwasaki	• Sustainable and bio-compatible materials design with molecular simulations and materials informatics
	Magnetic metrology, Spin polarized scanning electron microscopy
Teruo Kohashi	in the second by the permitted beaming electric in the second by
Teruo Kohashi Kazuo Saito	
	 Advanced electronic engineering CMOS analog integrated circuit design and its automated design algorithm.

* will retire in March, 2025

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Gunma University Initiative for Advanced Research (GIAR)

Faculty Members	Fields of Specialization
Professor	
Keisuke Nimura	Gene expression, Gene Therapy, Oncotherapy, DNA barcode, Next Generation Sequencing

Examination Location Information

◎ Gunma University School of Science and Technology [群馬大学理工学部]

·JR and On Foot: 25-minute walk from the Kiryu Station North Exit [桐生駅], JR Ryomo Line [両毛線]

・JR and Bus: After getting off at JR Ryomo Line Kiryu Station (North Exit [北口]), take the Orihime Bus [おりひめバス] for "Kyu Joshikou-mae iki [旧女子高前行], Kamibishi Danchi iki [上菱団地行], Umeda Furusato Center-mae iki [梅田ふるさとセンター前行]." Get off at "Gunma Daigaku Kiryu Seimon-mae [群馬大学桐生正門前]" after approximately 7 minutes.

- •Tobu Line and Bus: After getting off at Shin-Kiryu Station [新桐生駅] on the Tobu Kiryu Line [東武桐生線] take the Orihime Bus in front of the station for *"Kiryu Joshikou-mae iki, Kamibishi* Danchi iki. "Get off the bus at *"Gunma Daigaku Kiryu Seimon-mae"* after approximately 15 minutes.
- Note 1: The School of Science and Technology was established following a reorganization of the Faculty of Engineering in April 2013. Please note that it is still sometimes referred to as the "Faculty of Engineering [工学部]."
- Note 2: Traveling to the exam location by car or motorbike is forbidden.
- Note 3: Please be sure to check for the latest public transportation information so that you can reach the exam location well in advance of the exam starting time or the designated time.

