

AiQuSci

Upcoming call for applications:

Fusion of AI and Quantum Sciences for

Developing Innovative Human Resources:

Global Education Program in the COVID-19 Era

Fall Semester of Academic Year 2022

(October 2022)



The University of Electro-Communications

2021.12.15



Upcoming call for applications:

Fusion of AI and Quantum Sciences for Developing Innovative Human Resources: Global Education Program in the COVID-19 Era (AiQuSci)

The program will be offered by: Graduate School of Informatics and Engineering, the University of Electro-Communications (UEC Tokyo)

Enrollment: Fall Semester of academic year 2022 (October 2022)

Degrees to be offered: Masters and PhD

Financial support: Japanese government (MEXT) scholarship (Scholarship of 145,000 JPY (DC) / 144,000 JPY (MC) per month will be paid. Admission & tuition fees waiver is granted)

Deadline for contacting supervisor: January, 2022 (JST) , but please establish contact as soon as possible.

Deadline for submitting documents: February 15, 2022 (JST)

Further information will be provided at:

>http://www.fedu.uec.ac.jp/en/future_students/aigusci/

We welcome individuals with various international backgrounds who wish to pursue graduate studies in various fields of Informatics and Engineering at UEC Tokyo. Our new program will be open to applicants for enrollment in Fall Semester starting in October, 2022.

An applicant may not file MEXT scholarship programs of other universities at the same time. If it is found that the applicant has applied to more than one university, he / she will be disqualified.

2021.11.29

AiQuSci Graduate Program at UEC Tokyo

Fusion of AI and Quantum Sciences for Developing Innovative Human Resources: Global Education Program in the COVID-19 Era (AiQuSci)



1. About Our Program

The "Fusion of AI and Quantum Sciences for Developing Innovative Human Resources: Global Education Program in the COVID-19 Era (AiQuSci)" is a new international graduate program offered by the Graduate School of Informatics and Engineering at the University of Electro-Communications (UEC Tokyo). The program started in the Fall Semester of academic year 2021. The program has been selected to be part of the prestigious Japanese government (MEXT) special scholarship program.

The program is aimed at graduate engineers and scientists who can bridge the gap between fields of specialization, industry and academia as well as national borders, forming a network of trained individuals who can collectively contribute to SDGs, higher education in developing countries, etc. To this end, AiQuSci recruits excellent international students interested in Informatics and Engineering, with a view to innovations based on Quantum Sciences and Artificial Intelligence (AI). They will be joined by Japanese students, who study the same curriculum to become global leaders with broad perspectives.

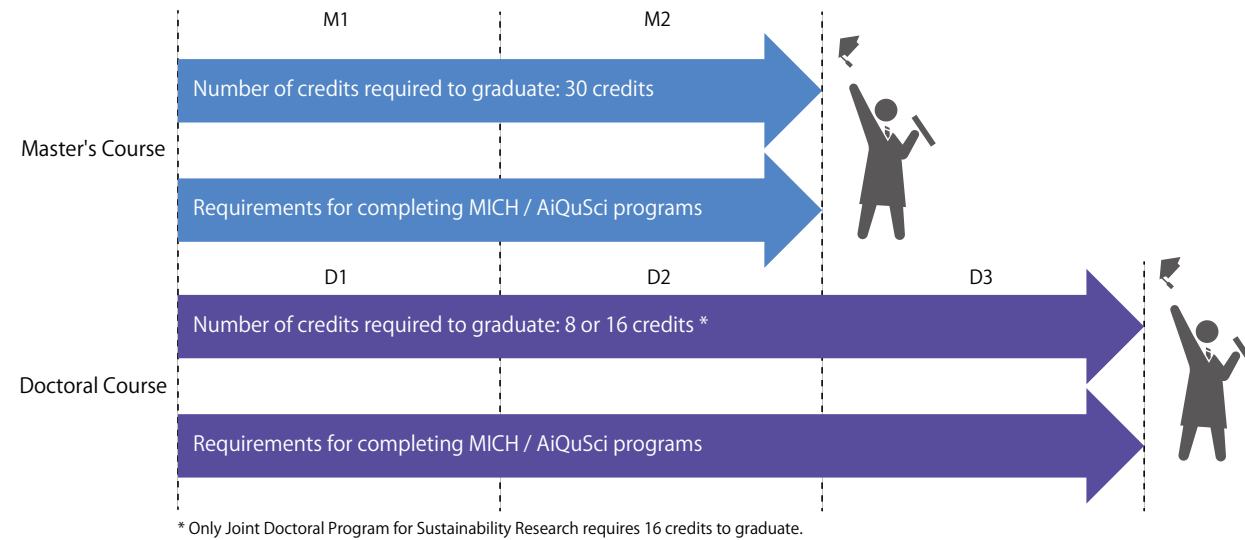
2. Recruitment Capacity of MICH for MEXT Scholarship Students

- Master's Course: 2 students
 - Doctoral Course: 6 students
- * The AiQuSci program is also open to 8 self-financed students and 16 Japanese students.

3. Course Overview

- Students will pursue their desired major by enrolling in one of the following Departments or Joint Doctoral Program: Department of Informatics, Department of Communication Engineering and Informatics, Department of Mechanical Engineering and Intelligent Systems, Department of Engineering Science as well as the Joint Doctoral Program for Sustainable Research. In addition, they will receive guidance from faculty members working in two complementary fields: one is the main field and the other is the subfield in order to help students broaden their scope of study and experience.
- Students are encouraged to participate in various educational and research events such as internships, international conferences, collaborative training camps with students from neighboring universities, subject to their own choice and to the judgment of their supervisors.

4. Outline of program completion requirements



Students participating in the program have to fulfill the following requirements in addition to the requirements for completing a master's or doctoral program at UEC Tokyo.

- Students must take at least one Major subject of the department to which the student belongs, and also take a Major subject of another department or designated subject.
- Students must attend the UEC International Mini-Conferences for Students on Informatics, Sciences and Engineering (UEC mini-Conference) every semester.
- Students should support cross-cultural exchange and language learning between other international students and Japanese students.
- During their enrollment, students must participate in at least one from a list of the events (conferences, lectures, camps, internships, short-term exchange programs, academic events, etc.).

By planning and carrying out a program with individuals from diverse backgrounds, the students are also expected to learn different working styles, strategies, and ethics which are influenced by cultural as well as individual values. As the world becomes more globalized and diversified, we need to be not only more internationally minded but also equipped with skills to work effectively with people from different backgrounds. This co-learning program offers a platform where students can test and practice their skills on their way to build a sustainable society.

5. Age

In principle, the program is limited to those who were born after April 2, 1987.

Exceptions are limited to cases in which MEXT deems that the applicant could not apply within the eligible age limit due to the situation or circumstances of the applicant's country (military service obligation, loss of educational opportunities due to disturbances of war, etc.) Personal circumstances (financial situation, family circumstances, state of health, circumstances related to applicant's university or place of employment, etc.) will not be considered for exceptions.

6. Nationality

MEXT regulations allow us to recommend up to two students from other than the "Priority Nationality".

> The list of Priority Nationalities:

http://www.fedu.uec.ac.jp/en/future_students/2020/12/The%20list%20of%20Priority%20NationalitiesMEXT.pdf

Also, applicants must have the nationality of a country with diplomatic relations with the Japanese government. Applicants who have Japanese nationality at the time of application are ineligible. However, Japanese nationals

that reside outside of Japan at the time of application, having dual citizenship with another country, and plan on relinquishing their Japanese nationality before arrival, may apply.

7. Application Requirements

- Academic achievements in terms of Grade Point Average on the JASSO evaluation scale (GPA) must be 2.30 or higher. UEC will calculate your GPA, so please send the transcript and the grade evaluation scale of your university to the prospective supervisor first.

(Conversion chart)

Classification	Grade				
4-level rating		優 (Excellent)	良 (Good)	可 (Average)	不可 (Fail)
5-level rating	S	A	B	C	F
5-level rating	100 - 90	89 - 80	79 - 70	69 - 60	59 - 0
Grade Points	3	3	2	1	0

(GPA Formula)

$$\frac{([\text{No. of GP3 Credits}] \times 3) + ([\text{No. of GP2 Credits}] \times 2) + ([\text{No. of GP1 Credits}] \times 1) + ([\text{No. of GP0 Credits}] \times 0)}{\text{Total Number of Registered Credits}}$$

* No. = Number * GP = Grade Point

- The following language skills are required for either English or for Japanese.
 1. Japanese: one of the following conditions to be met.
 - a) Those who have passed Japanese Language Proficiency Test Level N2 or higher.
 - b) Those who have obtained an academic degree using Japanese as the main language.
 - c) Those who are recognized by the UEC as having language skills equivalent to the conditions in a) above.
 2. English: one of the following conditions to be met.
 - a) Those who have qualifications and scores equivalent to B2 of Common European Framework of Reference for Languages (CEFR).
 - b) Those who have obtained an academic degree using English as the main language.
 - c) Those who are recognized by the UEC as having language skills equivalent to the conditions in a) above.

CEFR	Cambridge English Scale	IELTS	TOEFL iBT	TOEIC L&R	
				Listening	Reading
C2	230 200	9.0 8.5			
C1	199 180	8.0 7.0	120 95	490~	455~
B2	179 160	6.0 5.5	94 72	400~	385~
B1	159 140	5.0 4.0	71 42	275~	275~
A2	139 120			110~	115~
A1	119 100			60~	60~

Unofficial excerpt/translation based on the chart announced by MEXT in March 2018
https://www.mext.go.jp/b_menu/houdou/30/03/___icsFiles/afieldfile/2019/01/15/1402610_1.pdf

*** Please be sure to ask prospective supervisor about qualifications and conditions.**

8. Health

Applicants must be physically and mentally healthy enough to pursue their studies.

9. Arrival in Japan

Applicants must be able to leave their country and arrive in Japan by the date specified by the UEC Tokyo. If an applicant is unable to travel to Japan within the designated period, he or she must decline the scholarship offer. If, for personal reasons, an applicant arrives in Japan outside the designated period, travel expenses for coming to Japan can not be paid to the applicant.

10. Visa Requirements

Applicants must enter Japan with the resident status of "Student", having obtained the visa anew prior to traveling to Japan. The visa is to be issued by the Japanese embassy or consulate in the applicant's country of nationality. Those who already have another residency status (permanent resident, long-term resident, etc.) will be required to return to their country of nationality, change their status to that of "Student" and then back to Japan. Note that there is no guarantee that an application to change your resident status back to that of "permanent resident" or "long-term resident" etc. will be approved once you have completed your time as a Japanese Government (MEXT) Scholarship recipient.

Applicants should be aware that the scholarship will be cancelled if he/she arrives in Japan without a newly obtained "student" visa.

11. Non-eligibility

Those who meet any one of the following conditions are ineligible. If identified ineligible after being selected as a scholarship student, he/she must withdraw from the scholarship:

- Those who are military personnel or military civilian employees at the time of their arrival in Japan or during the period of the payment of the scholarship.
- Those who cannot arrive in Japan by the last date of the period specified by MEXT or UEC Tokyo.
- Those who are previous grantees of Japanese Government (MEXT) scholarship programs (including those who withdrew from the scholarship program after arrival in Japan). This does not apply to: those who have educational or work experience exceeding more than three years from the month following the period of the previous scholarship to the estimated first month of the payment of this scholarship; and the past grantees of Japanese Studies Students program who have graduated or are going to graduate from universities in their home countries, Japan-Korea Joint Government Scholarship Program for the Students in Science and Engineering Departments and Young Leaders' Program. The Monbukagakusho Honors Scholarship for Privately-Financed International Students is not included in the Japanese Government (MEXT) Scholarship Programs.
- An applicant who is also applying for a Japanese Government (MEXT) Scholarship for another AY2022 program.
- Those who are already enrolled in a Japanese university or other institution with a residence status of "Student," or who are going to be enrolled, or plan to enroll, in a Japanese university or other institution as a privately-financed international student between the time of application to the MEXT scholarship program in the applicant's country and the commencement of the period for payment of the MEXT scholarship. However, this stipulation does not apply to privately-financed international students who, even though they are enrolled, or are planning to enroll, in a Japanese university or other institution, verifiably complete their studies before the start of the scholarship payment period, return to their home country at the time of the scholarship application, and newly acquire the "Student" residence status and come to Japan.

- Those who are planning to receive scholarship money from an organization other than MEXT (including government organization of the applicant's country) on top of the scholarship money provided by MEXT after the start of the scholarship payment period.
- Those who are expected to graduate at the time of application and cannot satisfy the condition of academic background by the deadline given.
- Holders of dual nationality at the time of application who cannot verify that they will give up Japanese nationality by the time of the arrival in Japan.
- Those who plan to, at the time of application for the MEXT scholarship program, engage in long-term research (such as fieldwork or internship) outside Japan or plan to take a long-term leave of absence from the university.
- Those who have completed a Doctoral program and does not plan on obtaining another degree.

12. MEXT Special Scholarships

(1) Allowance

The amounts listed below shall be paid depending on the course enrolled in. A supplemental regional allowance of 2,000 yen or 3,000 yen per month will be added to the monthly scholarship amount for the grantees studying or conducting research in specially designated regions. Due to the situation of the Japanese Government's budget, the amount of payment may be subject to change each fiscal year. If the scholar's annual GPA falls below 2.30, he/she will lose his/her qualification as a MEXT scholar.

- Admission & tuition fees waiver is granted.
- Master's course : 144,000 JPY per month
- Doctoral course : 145,000 JPY per month

* According to MEXT regulations, scholarship will start from the month you enter Japan. MEXT will not provide scholarship for the months when you can't enter Japan. For example, if you enroll in October and enter Japan in November, you cannot receive the scholarship for October.

(2) Traveling Costs

A) Transportation to Japan:

- Recipients awarded travel allowance will be provided, according to the itinerary and route designated for them by MEXT, with an economy class air ticket from the international airport closest to their place of residence to one of the international airports of Tokyo (Narita (NRT) or Haneda (HND)) (or an international airport the recipient's host university normally uses). Please note that the following costs are in the sole responsibility of the recipient: transportation from the recipient's residence to the nearest international airport; airport tax and surcharges; other special local taxes incurred by travelling; local travel expenses within Japan (including any costs if transferring by air); travel insurance premiums; baggage and unaccompanied baggage.
- MEXT or the university will provide an economy class air ticket to Narita International Airport (NRT) or the closest international airport to the university from a third country through which the applicant obtained their "Student" visa, if Japan does not have an overseas diplomatic establishment in their country of nationality. However, any costs incurred in travelling to the third country, travels within the third country and cost of accommodations incurred are in the sole responsibility of the recipient.
- The recipient's residence is taken to be the current address given in the application. However, if a change of address is known beforehand (limited to within the recipient's home country), residence will be taken as the latter. Moreover, an air ticket will not be provided if the recipient travels to Japan from a country other than that of their nationality. Air tickets will not be provided for travel from a third country for any reasons other than for obtaining visas.

B) Transportation from Japan:

- In principle, MEXT will issue airline tickets to recipients who return to their home country within the final month of the scholarship period as specified in "2. Period of Scholarship" above upon application following their graduation from university or completion of their research. Recipients will be provided with an economy class air ticket for a flight from Narita International Airport (or an international airport the recipient's university normally uses) to the international airport closest to their place of return (in principle, within their home country). Please be aware that the following costs are in the sole responsibility of the recipient: transportation from the recipient's residence to the nearest international airport in Japan; airport tax and surcharges; other special local taxes incurred when travelling; local travel expenses within Japan (including any costs if transferring by air); insurance premiums for travel to Japan; sending baggage as well as unaccompanied baggage.
- Recipients who return to their home country before the end of the scholarship period for personal reasons or because of items as stipulated in "13. Suspension of Payment of Scholarship" below will not be provided with return airfare.

Note:

Traveling expenses will not be included in the travel allowance if a recipient decides to remain in Japan (for example; continuing the education at a higher level or entering employment in Japan) after the period of scholarship ends and temporarily leaves Japan.

13. Suspension of Payment of Scholarship

Payment of the scholarship will be cancelled for the reasons given below. Should any of the following reasons apply, the grantee may be ordered to return a part of, or all of, the scholarship paid up to that time. Payment of the scholarship may also be stopped during the period up to the decision on the disposition of the matter.

- A grantee is determined to have made a false statement on his/her application.
- A grantee violates any article of his/her pledge to the Minister of Education, Culture, Sports, Science and Technology.
- A grantee violates any Japanese laws and is sentenced and imprisoned for an indefinite period or for a period exceeding 1 year.
- A grantee is suspended from his/her university or preparatory educational institution or receives other punishment, or is removed from enrollment; as a disciplinary action in accordance with school regulations of the accepting institution.
- It has been determined that it will be impossible for a grantee to complete the course within the standard period of study because of poor academic grades or suspension or absence from the university or preparatory educational institution.
- A grantee came to Japan without a newly acquired the "Student" residence status, or changed his/her residence status to one other than "Student".
- A grantee has received another scholarship (excluding those specified for research expenditures).
- A grantee proceeds to a more advanced level of education without receiving approval for an extension of the period of the scholarship.
- A grantee has left the university or transferred to another graduate school.
- When the annual academic achievement falls below GPA 2.30 or the University standards.

14. Required documents

The following documents must be prepared and submitted in consultation with the prospective supervisor.

1) Application for admission (2022 Version, double sided printing)

- * Please read "INSTRUCTIONS" carefully before filling in the form. In particular, make sure that the academic record period and language proficiency score are correct. Do not insert rows and columns.

** Digital signature is not acceptable.

2) "Field of Study and Research Program" (double sided printing)

- * Please be sure to consult with your prospective supervisor before filling in the form.

3) A copy of the student's passport (The page with photo). If you do not have a passport, please submit a copy of the family register, or the citizen (resident) register.

4) Certificate of University Academic Record (Transcript), authorized by the University which you belong to or graduated from as a student.

5) Certificate of University graduation, diploma or degree, authorized by the University which you belong to or graduated from as a student.

6) Certificate of a higher rank of academic records at the University. (Certificate of GPA, ranking etc)

- * If the GPA is listed on the Academic Record, you do not need to submit it.

7) Letter of recommendation from "the dean or higher" to which the applicant belongs as a student, or has recently graduated from.

- * This letter must fulfill all of the following conditions:

1. The name of the addressee stated in the letter must be "To the President of the University of Electro-Communications"
2. The letter must be printed on your university's letterhead.
3. The letter must be written by and signed by the dean or higher.

8) Photograph data of passport size (4.5 × 3.5cm) taken within the past 6 months.

- * The upper half of the body: front face: without a hat. Even if it is covered with a cloth, it does not matter as long as the face is clearly visible.

** Please submit a clear color photo data. After the screening, it will be used for the student ID card.

9) Summary of a graduation thesis. (should be concise and to the point).

10) List of academic paper(s) and book(s) for MEXT Scholarship Program.

- * Please fill in the information regarding your academic paper(s) or book(s). Please also attach a copy of academic paper(s) or a copy of the title page of book(s) listed below.

11) Certificate of language ability. (TOEFL, TOEIC, Japanese language proficiency test etc).

Please submit the score sheet which has been taken after December 15, 2019. If you cannot submit the original score sheet with your application documents, your application will not be accepted.

If you do not have a language proficiency certificate or a degree in English or Japanese as your main language, please submit a document that can prove it. This document only accepts official documents issued by the University which you belong to or graduated from as a student.

*Please use designated form for 1) and 2). Do not insert rows and columns for the form 1).

**These documents should be typewritten if possible, or neatly handwritten in block letters, on the paper of the size 29.7 cm × 21.0 cm.

***These documents must be written in either Japanese or English, or accompanied by a translation in either of these languages.

15. Life at UEC Tokyo

- Student dormitories, located on or near Campus, are available for international students.
> <https://www.uec.ac.jp/eng/life/dormitory.html>
*More Information>> <https://www.uec.ac.jp/eng/life/>



16. Application procedure

Step 1)
Please download the application sheets.
http://www.fedu.uec.ac.jp/en/future_students/mich/

Step 2)
Search for and contact directly to UEC faculty members by e-mail or ZOOM to consult about research contents and plan. Also, please send the transcript and the grade evaluation of your university to your prospective supervisor. UEC Tokyo will calculate your GPA and will check if it meets the requirements.

< How to find an academic supervisor of UEC? >
Firstly, please go to the website listed below, or simply use Google search with your interested words, such as "Laboratory", "UEC" and your research field.

- 1) Lab Search
- * Japanese Text only. Use google translation or similar software to translate contents into your language.
- > <https://cf.arc.uec.ac.jp/labsearch/>
- 2) Researcher Information of the UEC (English/ Japanese Text)
- > <http://kjk.office.uec.ac.jp/scripts/websearch/kani.htm?lang=en>

Step 3)
If your GPA meets the requirements and receive the permission, please follow your prospective supervisor's instructions to prepare the required documents.

Step 4)
Please use the check sheet to check if there are any mistakes with the application documents, and then send it as data to your prospective supervisor.

17. Contact Information

International Student Office: iso@office.uec.ac.jp

NOTE:
If you have any questions, please read the "FAQ and Useful information for MEXT Scholarships" carefully first. If you have any questions not listed in it, please email us.

- FAQ and Useful information for MEXT Scholarships

> http://www.fedu.uec.ac.jp/en/future_students/20210726v1_FAQ_MEXT.pdf

Check sheet

NOTE:
An applicant may not file MEXT scholarship programs of other universities at the same time. If it is found that the applicant has applied to more than one university, he / she will be disqualified.

No.	Application Documents	Original	Copy	Check
1	Application for admission (2022 Version, double sided printing). * Please read "INSTRUCTIONS" carefully before filling in the form. In particular, make sure that the academic record period and language proficiency score are correct. <u>Do not insert rows and columns.</u> * Digital signature is not acceptable.	1		
2	“Field of Study and Research Program” (double sided printing). * Please be sure to consult with your prospective supervisor before filling in the form.	1		
3	A copy of the student's passport (The page with photo). * If you do not have a passport, please submit a copy of the family register, or the citizen (resident) register.		1	
4	Certificate of University Academic Record (Transcript), authorized by the University which you belong to or graduated from as a student.	1		
5	Certificate of University graduation, diploma or degree, authorized by the University which you belong to or graduated from as a student.	1		
6	Certificate of a higher rank of academic records at the University. (Certificate of GPA, ranking etc) * If the GPA is listed on the Academic Record, you do not need to submit it.	1		
7	Letter of recommendation from "the dean or higher" to which the applicant belongs as a student, or has recently graduated from. * This letter must fulfill all of the following conditions: 1. The name of the addressee stated in the letter must be "The President of the University of Electro-Communications". 2. The letter must be printed on your university's letterhead. 3. The letter must be written by and signed by the dean or higher.	1		
8	Photograph data of passport size (4.5×3.5cm) taken within the past 6 months. *The upper half of the body: front face: without a hat. Even if it is covered with a cloth, it does not matter as long as the face is clearly visible. *Please submit a clear color photo data. After the screening, it will be used for the student ID card.	1		
9	Summary of a graduation thesis (should be concise and to the point).	1		
10	List of academic paper(s) and book(s) for MEXT Scholarship Program.	1		
11	Certificate of language ability. (TOEFL, TOEIC, Japanese language proficiency test etc). The following language skills are required for either English or for Japanese. 1. Japanese: one of the following conditions to be met. a) Those who have passed Japanese Language Proficiency Test Level N2 or higher. b) Those who have obtained an academic degree using Japanese as the main language. c) Those who are recognized by the UEC as having language skills equivalent to the conditions in a) above. 2. English: one of the following conditions to be met. a) Those who have qualifications and scores equivalent to B2 of Common European Framework of Reference for Languages (CEFR). b) Those who have obtained an academic degree using English as the main language. c) Those who are recognized by the UEC as having language skills equivalent to the conditions in a) above. * Please submit the score sheet which has been taken after December 15, 2019. If you cannot submit the original score sheet with your application documents, your application will not be accepted. If you do not have a language proficiency certificate or a degree in English or Japanese as your main language, please submit a document that can prove it. This document only accepts official documents issued by the University which you belong to or graduated from as a student.	1		

