

佐賀大学大学院理工学研究科  
ASEAN と日本の共発展を目指す T 型高度人材育成プログラム (EPAT)  
AI・データサイエンス高度人材育成プログラム (EPAD)  
博士後期課程 (外国人留学生ー在外)  
学生募集要項

**Guide for the Application for the Foreign Students of  
Education Program of Advanced T-shaped Person for Co-development  
of ASEAN and Japan (EPAT)  
and  
Education Program for AI and Data Science Specialists (EPAD)**

**(Doctoral Course)**

**October, 2024**

**April, 2025**

Enrollment	Application Deadline	Announce of Results
October 1, 2024	June 7, 2024	July, 2024
April 1, 2025	November 22, 2024	January, 2025

Graduate School of Science and Engineering  
SAGA UNIVERSITY

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本学が取得した個人情報は、法令に基づく場合を除き、出願者本人の同意を得ることなく他の目的で利用又は第三者に提供する事はありません。

## CONTENTS

○ GUIDE FOR APPLICATION.....	1
○ ACADEMIC STAFFS ATTENDING EPAT COURSES AND THEIR RESEARCH INTERESTS AND MAJOR FIELDS .....	11
○ ACADEMIC STAFFS ATTENDING EPAD COURSES AND THEIR RESEARCH INTERESTS AND MAJOR FIELDS .....	15
○ PAYMENT THROUGH Flywire.....	17
○ APPLICATION FORM (Appendix)	

<p>THE FOREIGN STUDENTS OF EDUCATION PROGRAM OF ADVANCED T-SHAPED PERSON FOR CO-DEVELOPMENT OF ASEAN AND JAPAN (EPAT)</p>
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The Education Program of Advanced T-shaped Person for Co-development of ASEAN and Japan (EPAT) provides all lectures, seminars, and internships, etc. on global environmental, energy problems and health science expertise in English for both foreign and Japanese students. The EPAT is an educational course in the Graduate School of Science and Engineering and Graduate School of Advanced Health Science, Saga University, that started in October 2023, in order to nurture “T-shaped advanced human resources” who have a corporate perspective and AI data science besides a deep specialized research and development capabilities. This is a call for application to a three-year Doctoral Course from the academic year of October, 2024 and April 2025.

Environmental, energy and resource problems associated with rapid economic development are particularly serious in Asian countries, many of which are developing countries. For the sound development of developing countries, it is necessary to fully understand and analyze the challenges that Asian countries face, and to develop comprehensive technologies that also include management. EPAT will be established in the Graduate School of Science and Engineering and the Graduate School of Advanced Health Sciences in order to nurture “T-shaped advanced human resources” who have a corporate perspective and AI data science besides a deep specialized research and development capabilities. We aim to develop human resources who can demonstrate leadership in research and development related to the environment, equipped with specialized knowledge of science and engineering and medical engineering, a business perspective, and knowledge of AI and data science. We will contribute to the common development of ASEAN and Japan in order to solve energy and resource issues.

Applicants for EPAT's Doctor's degree program must determine their field of study from the courses below and select a relevant supervisor(s) listed in the faculty list. The applicants should contact the supervisor(s) before an application submission.

Graduate School of Science and Engineering:

Mechanical and Electrical Energy Engineering, Civil Engineering and Architectural Design and  
Biological and Material Engineering.

Students who complete the Doctoral Course program of the EPAT are granted the Doctor's Degree (Doctor of Philosophy in Science or Doctor of Philosophy in Engineering). The month of entrance for foreign students is October, 2024 or April 2025 and they can enter the EPAT course immediately after completing their Master's Degree program without learning Japanese language.

佐賀大学大学院理工学研究科 ASEAN と日本の共発展を目指す T 型高度人材育成プログラム (EPAT) は、外国人留学生と日本人学生が共学し、世界的な環境とエネルギー及び健康の専門知識に関する講義、セミナー、およびインターンシップ研修などの教育カリキュラムを全て英語で実施します。外国人留学生は、日本語の習得の障壁なく日本で充実した教育を受け研究を行い、一層の修業成果を上げることができます。EPAT は、エネルギー・環境・健康科学分野に深い専門知識と研究開発能力を縦軸に有し、併せて企業の視野と AI・データサイエンスの知識を両翼にもつ T 字型高度人材を育成するため、2023 年 10 月にスタートしました。ここに、2024 年 10 月入学、2025 年 4 月入学の博士後期課程 (3 年間) の学生を募集します。

多くが成長国 (途上国) にあるアジア諸国において、急速な経済発展に伴う環境・エネルギー・資源問題は特に深刻です。成長国の健全な発展のために、アジア諸国がそれぞれに抱える課題を十分に把握・分析した上で、なおかつマネジメントも含む総合的な技術開発が求められています。EPAT は、深い専門的研究開発能力の縦軸と、企業の視野と AI・データサイエンスを両翼にもつ「T 字型の高度人材」を育成するために理工学研究科及び先進健康科学研究科に発足します。このプログラムは、修了後、理工学系分野及び医工学系分野の専門的知識と企業の視野、AI・データサイエンスの知識を持ち、環境・エネルギー・資源問題について研究開発やリーダーシップを発揮できる人材として、ASEAN と日本の共発展に貢献していくことを目的としています。

EPAT 博士後期課程プログラムは、理工学研究科の機械・電気エネルギー工学、社会基盤・建築デザイン、バイオ・マテリアルエンジニアリングの各コースにおいて教育と研究指導が行われます。志願者は、教員リストに記載されている指導教員のうちから、希望する研究分野を決定し、希望する指導教員を選んで、連絡をとってください。

本コースの博士後期課程修了者には博士 (理学、工学のいずれか) の学位が与えられます。なお、本申請による入学は 2024 年 10 月もしくは 2025 年 4 月であり、外国で大学院修了後直ちに日本語の教育を受けることなく入学することができます。

<p>THE FOREIGN STUDENTS OF EDUCATION PROGRAM FOR AI AND DATA SCIENCE SPECIALISTS (EPAD)</p>
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The Education Program for AI and Data Science Specialists (EPAD) provides all lectures, seminars, and internships, etc. on AI and data science technologies in English for both foreign and Japanese students. Students from overseas can learn and study completely in Japan without a hurdle of Japanese language. The EPAD is an educational course in the Graduate School of Science and Engineering, Saga University, that started in October 2022, in order to bring up global researchers and engineers who will contribute to technological innovation in AI and data science fields. This is a call for application to a three-year Doctor Course from the academic year of October, 2024 and April, 2025.

The wisdom that mankind has created by the academic deepening has brought humanity a prosperous life through developing science and technology. To improve science and technology, it is necessary to sustain efforts from the viewpoint of AI and data science technologies. Educational study of AI and data science should be performed from the all-round and global viewpoint. The EPAD has been established in the Graduate School of Science and Engineering in order to discuss and solve AI and data science problems. The scope and goal of this EPAD is the education for students to possess an all-round insight for AI and data science from the global point of view after their completion by acquiring knowledge and thinking power.

In the Doctoral Course program of the EPAD, education and research guidance of the fields are given by the Mathematical and Information Science Course, Mechanical and Electrical Energy Engineering Course, Biological and Material Engineering Course in the Graduate School of Science and Engineering. Applicants are encouraged to decide the research fields and prospective relevant supervisor(s) appearing on the List of Academic Staffs, and contact with the supervisor(s).

Students who complete the Doctor Course program of the EPAD are granted the Doctor's Degree (Doctor of Philosophy in Science or Doctor of Philosophy in Engineering). The month of entrance for foreign students is October, 2023 or April 2024 and they can enter the EPAD course immediately after completing their Master's Degree program without learning Japanese language.

## 佐賀大学大学院理工学研究科

### AI・データサイエンス高度人材育成プログラム博士後期課程

佐賀大学大学院理工学研究科 AI・データサイエンス高度人材育成プログラム（EPAD）は、外国人留学生と日本人学生が共学し AI やデータサイエンス技術に関する講義、セミナー、およびインターンシップ研修などの教育カリキュラムを全て英語で実施します。外国人留学生は、日本語の習得の障壁なく日本で充実した教育を受け研究を行い、一層の修業成果を上げることができます。EPAD は、AI やデータサイエンスによる技術革新に貢献するグローバルな研究者や技術者を育成するため、2022 年 10 月にスタートしました。ここに、2024 年 10 月入学、2025 年 4 月入学の博士後期課程（3 年間）の学生を募集します。

学問の深化により人類が生み出した英知は、科学技術を発展させることで人類に豊かな生活をもたらしています。科学技術の向上には、AI・データサイエンスの観点からの取り組みが必要です。AI・データサイエンスの教育研究は、総合的にしかも世界的な視野に立って取り組まなければなりません。EPAD は、AI・データサイエンスに関わる問題を議論し解決するために理工学研究科に発足しました。修了後、AI・データサイエンスに関する知識と知識と思考力を持ち、世界的な視野で総合的に洞察できる学生を育成することを目的としています。

EPAD 博士後期課程プログラムは、理工学研究科の数理・情報サイエンスコース、機械・電気エネルギー工学コース、バイオ・マテリアルエンジニアリングコースの各コースにおいて教育と研究指導が行われます。志願者は、教員リストに記載されている指導教員のうちから、希望する研究分野を決定し、希望する指導教員を選んで、連絡をとってください。

本コースの博士後期課程修了者には博士（理学、工学のいずれか）の学位が与えられます。なお、本申請による入学は 2024 年 10 月もしくは 2025 年 4 月であり、外国で大学院修了後直ちに日本語の教育を受けることなく入学することができます。

## QUALIFICATIONS

\* For applicants who wish to enroll in April 2025, please replace "September 2024" with "March 2025".

1. **Applicants:** Non-Japanese citizens arriving from foreign countries to attend this program can apply.
2. **Academic career:** The following candidates may apply for admission.
  - a. Those who have received Master's Degree from Japanese University.
  - b. Those who have received Degree equivalent to Master's Degree of Japanese Universities in foreign country, or will receive it in foreign country as of September, 2024.
  - c. Those who have received a Degree equivalent to Master's Degree of Japanese Universities from a foreign school through correspondence education in Japan, or will receive the Degree as of September, 2024.
  - d. Those who have received a Degree equivalent to Master's Degree of Japanese Universities at educational institutions of the foreign country in Japan, which is designated by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government, or will receive the Degree as of September, 2024.
  - e. Those who have been designated by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government.
  - f. Those who are 24 years old or more as of September, 2024, and are admitted by the Graduate School of Saga University as that their academic abilities are equivalent to or higher than Master's Degree of Japanese Universities upon reviewing the submitted materials.
- \* Applicants who plan to apply under Qualification 2-f. should contact the Entrance Examination Office of Saga University by May 10, 2024 for admission in October 2024, or by October 25, 2024 for admission in April 2025, to be screened for eligibility.
3. **Health:** Applicants should be in good health both mentally and physically.
4. **Language proficiency:** A good working level of English is required.
5. **Arrival in Japan:** Applicants should arrive in Japan by September 2024, if admitted.

### Remarks

- 1) Military personnel and civilian employees of the armed forces are not eligible.
- 2) Admission shall be canceled if the applicant fails to arrive in Japan by September, 2024.
- 3) Admission shall be canceled if the applicant fails to receive the Master's Degree on or before September, 2024.
- 4) If you are handicapped and hope the special care about the entrance examination or the study in Japan, please consult with the entrance examination office before the application.

## ENROLLMENT AND TUITION EXPENSES

1. **Entrance examination fee:** 30,000 Yen.
2. **Entrance fee:** 282,000 Yen
3. **Tuition fee:** 267,900 Yen for each semester (scheduled). [535,800 Yen per academic year (scheduled)]. Amount of due might be slightly revised depending on the decision of the administration council. Payments must be done for each semester biannually within the beginning two months of the semester. For the information on the tuition assistance, exemption subsidization, and scholarships is available at the Benefits section in the following pages.
4. **Date of enrollment:** Date of enrollment is October 1, 2024 or April 1, 2025.

## 応募資格

\*2025年4月入学希望者は「2024年9月」を「2025年3月」と読み替えるものとします。

1. **国籍**：日本国籍を有しない者で、日本国外から留学する者
2. **学歴**：下記のいずれかに該当する者
  - a. 日本の大学から修士の学位を授与された者
  - b. 外国において、修士の学位に相当する学位を授与された者又は2024年9月までに授与される見込みの者
  - c. 外国の学校が行う通信教育における授業科目を我が国において履修し修士の学位に相当する学位を授与された者又は2022年9月までに授与される見込みの者
  - d. 我が国において、外国の大学院の課程を有するものとして当該外国の学校教育制度において位置付けられた教育施設であって、文部科学大臣が別に指定するものの当該課程を修了し、修士の学位に相当する学位を授与された者又は2024年9月までに授与される見込みの者
  - e. 文部科学大臣の指定した者
  - f. 本学大学院において、個別の入学資格審査により、修士の学位を有する者と同等以上の学力があると認めた者で、2024年9月において満24歳に達した者
- \* 応募資格 2-f.で出願予定の方は、2024年10月入学の場合は2024年5月10日までに、2025年4月入学の場合は2024年10月25日までに、佐賀大学入試課に連絡し、出願資格審査を受けてください。
3. **健康状態**：心身ともに健全な者
4. **語学力**：英語の能力が十分な者
5. **渡日**：合格した場合、2024年9月までに渡日可能な者

## 注

- 1) 現役軍人や軍属の資格の者は出願できません。
- 2) 2024年9月までに渡日をしなければ入学は取り消されます。
- 3) 修士の学位を取得見込みの者で、合格したものは、2024年9月までに学位を取得できなければ、入学を取り消します。
- 4) 障がい等を有する志願者で、受験上及び就学上の配慮を必要とする方は、出願前に入試課に相談してください。

## 入学と授業料

1. **検定料**：30,000円
2. **入学料**：282,000円
3. **授業料**：267,900円／半期（予定）[535,800円／年（予定）]

ただし、入学時及び在学中に学生納入金改定が行われた場合には、改定時から新たな納入金額が適用されます。

支払いは各学期始めの2ヶ月以内に済まされなければなりません。授業料減額、奨学金などは次ページの援助の項を参照のこと。

4. **入学日**は2024年10月1日または2025年4月1日です。



## SELECTION AND ADMISSION

1. Applicants who have excellent record will take an interview or an Internet interview by their desired Advisory Professor (Supervisor) after all-round judgment of submitted papers.
2. Applicants shall be examined by the Screening Committee of the program. Only those who have a solid academic background, research capability and commitment will be selected as a successful candidate. Final result of the selection will be notified in July 2024 for applicants applying for admission in October, 2024, and in January 2025 for applicants applying for admission in April 2025.
3. The number of applicants for October 2024 and April 2025 is 5 each for EPAT and 4 each for EPAD.

## APPLICATION PROCEDURE

1. Applicants should prepare the following documents to be forwarded to the Entrance Examination Office, Saga University. Simultaneous applications for both EPAT and EPAD are acceptable. In the case of simultaneous applications, a comprehensive set of documents should be submitted for each application. However, it is acceptable to submit the original certificates for one program and the copy documents for the other program. In addition, the entrance examination fee must be paid for each application.

\* For applicants who wish to enroll in April 2025, please replace "September 2024" with "March 2025".

- (1) **Application Form** (Form A).
- (2) **Field of Study and Study Program** (Form B). (This should be printed on both sides.)
- (3) Official transcripts of **Bachelor's degree**, and **Master's degree** or certificate representing that the applicant will be conferred Master's degree by September, 2024. In the case that the applicant will be qualified by the criterion 2-e of QUALIFICATIONS described above, an official transcript of Bachelor's degree is required. The transcript or certificate must be sealed by the authority or sent directly from the university.
- (4) Transcripts of **Academic Record** issued by the university authorities and its English translation. (The criteria of academic assessment should be also shown.)
- (5) English summary of **Master Thesis** or its equivalent if available, not exceeding four sheets of A4 size paper typed in double space. When a Master Thesis is not required by the University from which the applicant graduated, prepare a statement to that effect.
- (6) **Certificate of Citizenship** issued by the appropriate authorities.
- (7) **Recommendation and Reference**
  - a. A letter of **Recommendation** (Form C) from the head (Dean, in case of University) of the applicant's affiliated institution.
  - b. Letter(s) of **Reference** (Form D) from those who know the applicant's research/study capability addressed to the President of Saga University.
- (8) **Three Photographs** (hatless portrait), 4.5 cm × 3.5 cm in size, taken within six months of application date. One copy should be attached to the application form. Two extra copies should be enclosed therein, with the applicant's name and the nationality on the reverse side of the copies.
- (9) **Receipt for Entrance Examination Fee** (30,000 Yen).

Please pay the fee via Flywire. Fees for the remittance should be paid by the applicant. Please submit the receipt that can be downloaded after payment to Saga University, or print out a screenshot of the payment completion screen. Please refer to "PAYMENT THROUGH Flywire "(see page 17). Applicants who cannot use Flywire for any reason should email the Entrance Examination Office (see page 9).

Flywire (URL): <https://saga-u.flywire.com>

or scan:



If you have any questions, please contact Flywire:

Web: <https://www.flywire.com/support>

email: [support@flywire.com](mailto:support@flywire.com)

2. All documents should be sent by registered airmail, and must arrive at the Entrance Examination Office **by the deadline indicated on the cover page.**

## 選考と入学許可

1. 志願者のうちで、提出された書類を審査し、総合的に判断して成績が優秀な者については、指導を希望する教員による面接又はインターネットインタビューが行われます。
2. 志願者は、プログラムの選考委員会によって選考され、学業成績、研究能力が優秀であり、かつ出身大学等からの強い推薦がある者だけが合格者として選ばれます。最終結果は、2024年10月入学希望者は2024年7月に、2025年4月入学希望者は2025年1月に本学より志願者へ通知します。
3. 定員は、2024年10月入学、2025年4月入学で、それぞれEPATで5名、EPADで4名です。

## 申請

\*2025年4月入学希望者は「2024年9月」を「2025年3月」と読み替えるものとします。

1. 志願者は、本学学務部入試課宛に提出する下記の出願書類を準備して下さい。EPATとEPADを併願することが可能です。併願する場合は、それぞれの申請に対して書類一式の提出が必要です。ただし、一方のプログラムに証明書原本を提出し、もう一方のプログラムにコピーを提出しても構いません。なお、検定料はそれぞれの申請に対して支払う必要があります。

(1) 申請書 (様式 A)

(2) 研究分野と研究計画 (様式 B) (両面印刷すること)

(3) 学士及び修士の学位記の写し (原本と相違ないことが証明されたもの)。現在学生の者は、2024年9月までに修士の学位を取得予定であるという証明書。応募資格 2.学歴の e に該当する志願者は学士の学位証明書を提出してください。

(4) 大学から出される成績証明書と、その英語訳 (成績評価の基準がわかるものを提出すること)

(5) 修士論文の概要又は研究報告書など修士論文の概要と同等のもので、A4用紙4枚以内、英文のダブルスペースでタイプしたもの。志願者が修了した大学で修士論文が必要とされなかった場合は、その趣旨の申告書を提出してください。

(6) 本国の戸籍謄本又は市民権等の証明書

(7) 推薦書及び証明書

a. 申請者が属する機関の長の (大学においては研究科長) 推薦書 (様式 C)

b. 佐賀大学長あてに、志願者の研究/学力を知る者による証明書を提出してください。(様式 D) 推薦書と証明書は志願者の英語能力が記されていなければなりません。もしあれば、そこに TOEFL か英語能力試験に類似のもののスコアを示す証明書を同封してください。

(8) 4.5cm×3.5cm サイズで申請日前6か月以内に撮られた写真3枚 (上半身、脱帽、正面向き)。そのうち1枚は申請書に添付されていなければなりません。他の2枚の写真は、その裏に申請者名と国名を記入し、出願書類に同封してください。

(9) 入学検定料 (30,000 円) の受領書

入学検定料は Flywire を通してお支払いください。支払いにかかる手数料は志願者にてご負担ください。佐賀大学への入金完了後にダウンロードできる受領書、または支払い完了画面のスクリーンショットを印刷してご提出ください。「Flywire での納入」(18 ページ) を参照してください。何らかの理由で Flywire を利用できない方は、入試課までメールでお問い合わせください (10 ページ参照)。

Flywire (URL): <https://saga-u.flywire.com> または スキャン:

ご不明点は、Flywire へお問合せください。

Web: <https://www.flywire.com/support>

email: [support@flywire.com](mailto:support@flywire.com)



2. すべての書類は書留の航空便で、表紙に記載された締め切り日までに佐賀大学学務部入試課へ送付してください。

### **Remarks**

- 1) The above documents should be typewritten in English on A4 size paper.
- 2) Incomplete documents are not acceptable.
- 3) Applicants are advised to choose their desired Advisory Professor (Supervisor), and to indicate the supervisor's name on the application form (Form A).
- 4) None of the documents submitted is returned to the applicant in any case.

### **NOTES**

1. An applicant will be deprived of entrance under the following cases:
  - a. False statements on the documents.
  - b. Violation of the pledge.
2. Applicants are recommended to be well acquainted with the Japanese language, culture, customs, etc. A skill of the Japanese language is necessary in daily life.
3. Applicants are expected to complete their Doctoral Course Program within three years.

### **BENEFITS**

1. Exemption of tuition fee from complete to 50% may be granted depending on circumstances.
2. There are several scholarships for private-expense foreign students. Students can apply for these scholarships.
3. Housing: Students can apply to Saga University International House, or low-cost apartments supported by Saga prefecture and other organizations.

### **CORRESPONDENCE**

The application form should be sent by air mail to the address shown below. Note that the application forms must not be submitted in any kinds of electronic form. Forms sent by facsimile and attached files on e-mail shall not be accepted in any occasion.

**\* If you have difficulty mailing your documents by the deadline, please contact us at the e-mail address below until the application deadline.**

#### **Entrance Examination Office**

**Saga University**

**1 Honjo-machi**

**Saga 840-8502, Japan**

**Fax: (+81)-952-28-8944**

**E-mail: (EPAT) [epat@mail.admin.saga-u.ac.jp](mailto:epat@mail.admin.saga-u.ac.jp)**

**(EPAD) [epad@mail.admin.saga-u.ac.jp](mailto:epad@mail.admin.saga-u.ac.jp)**

## 注

- 1) 上記の書類は A4 用紙に英語でタイプしてください。
- 2) 不備書類は受付不可とします。
- 3) 志願者は、教員リストから希望する教員を選び、その教員名を申請書（様式 A）に必ず記入してください。
- 4) 提出された書類は志願者へは返却されません。

## 注意事項

1. 下記の場合には、合格者は入学許可を取り消されます。
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  - b. 誓約書違反
2. 合格者は日本語、文化、習慣などをよく身につけるように勧められます。日々の生活に日本語の知識は必要です。
3. 合格者は 3 年以内に博士後期課程を修了することになっています。

## 援助

1. 状況により、授業料が半額免除される可能性があります。
2. 私費留学生は、各種奨学金に応募できます。
3. 住居：佐賀大学国際交流会館や佐賀県などの低価格な住居に応募できます。

## 問合せ先

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佐賀大学学務部入試課

Fax:(+81)-952-28-8944

Email: (EPAT) [epat@mail.admin.saga-u.ac.jp](mailto:epat@mail.admin.saga-u.ac.jp)

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# ACADEMIC STAFFS ATTENDING EPAT COURSES AND THEIR RESEARCH INTERESTS AND MAJOR FIELDS

## GRADUATE SCHOOL OF SCIENCE AND ENGINEERING [DOCTORAL COURSE]

<b>Mechanical and Electrical Energy Engineering Course</b>			
<b><i>Thermo-Fluid Energy Engineering</i></b>			
<b>Laboratory of Thermal Engineering</b>			
Academic Staffs:	<b>Mitsutake, Y.</b>	<b>Kariya, K.</b>	<b>Ishida, K.</b>
Research Fields:	Thermodynamics, energy conversion, power plant systems, Heat exchanger, condensation, evaporation, absorption		
<b>Laboratory of Fluid Engineering</b>			
Academic Staffs:	<b>Kinoue, Y.</b>	<b>Shiomi, N.</b>	
Research Fields:	Turbomachinery, compressible fluid flow, effective utilization of fluid energy, multiphase flow		
<b><i>Material and Design Engineering</i></b>			
<b>Laboratory of Mechanics of Materials, Solid and Structures</b>			
Academic Staffs:	<b>Hagihara, S.</b>	<b>Tadano, Y.</b>	<b>Taketomi, S.</b> <b>Morita, S.</b>
Research Fields:	Strength of materials, Advanced solid mechanics, Computational mechanics, Numerical analysis for structures, Fatigue strength of metals and advanced materials		
<b>Laboratory of Design and Production Engineering</b>			
Academic Staffs:	<b>Hasegawa, H.</b>	<b>Mawatari, T.</b>	<b>Ohshima, F.</b>
Research Fields:	Design of machinery and machine elements, Tribology of machine elements, Surface engineering		
<b>Laboratory of Control Engineering</b>			
Academic Staffs:	<b>Sato, K.</b>		
Research Fields:	Control theory, robust control, adaptive control		
<b><i>Ocean Energy Engineering</i></b>			
<b>Laboratory of Ocean Engineering</b>			
Academic Staffs:	<b>Imai, Y.</b>	<b>Murakami, T.</b>	
Research Fields:	Wave energy conversion system, Marine hydrodynamics, Floating system		
<b>Laboratory of Thermal Engineering</b>			
Academic Staffs:	<b>Arima, H.</b>		
Research Fields:	Boiling heat transfer, two-phase flow, effective utilization of thermal energy		
<b>Laboratory of Thermal Energy Conversion Systems</b>			
Academic Staffs:	<b>Ikegami, Y.</b>		
Research Fields:	Ocean thermal energy conversion plant, development of thermal energy conversion system		
<b>Laboratory of Offshore Wind Energy Systems</b>			
Academic Staffs:	<b>Yoshida, S.</b>		
Research Fields:	Rotor aerodynamic, aero-elastics, floating offshore wind turbine, wind farm		
<b><i>Electronics, Information and Communication</i></b>			
<b>Laboratory of Advanced Microwave Engineering</b>			
Academic Staffs:	<b>Tanaka, Takayuki.</b>	<b>Nishiyama, E.</b>	
Research Fields:	Microwave circuits, Planar antennas, Wireless power transfer, Wireless communication systems		
<b>Laboratory of Advanced Computational Engineering</b>			
Academic Staffs:	<b>Itoh, H.</b>	<b>Fukumoto, H.</b>	
Research Fields:	Artificial general intelligence, Adaptive robots, Educational support system, Human interface		
<b>Laboratory of Advanced Optoelectronics</b>			
Academic Staffs:	<b>Guo, Q.</b>	<b>Tanaka, Tooru.</b>	
Research Fields:	Optoelectronic materials and devices (Light emitting diodes, Solar cells, etc), Epitaxial growth and characterization of semiconductors, Synchrotron light application for material characterization		
<b>Laboratory of Bionic and Cybernetic Engineering</b>			
Academic Staffs:	<b>Wakuya, H.</b>		
Research Fields:	Artificial Intelligence, Smart Robotic System, Biomedical Instrumentation		

<b>Advanced Power Electronics</b>	
<b>Laboratory of Plasma Energy Engineering</b>	
Academic Staffs:	<b>Ohtsu, Y. Ihara, S.</b>
Research Fields:	Plasma source for semiconductor manufacturing process, Thin film preparation, Dry etching process, High voltage engineering, Pulsed power engineering, Plasma engineering
<b>Laboratory of Surface and Interface Dynamics</b>	
Academic Staffs:	<b>Takahashi, K.</b>
Research Fields:	Synchrotron light application, Electron spectroscopy, Nano-scale materials
<b>Civil Engineering and Architectural Design Course</b>	
<b>Civil Engineering</b>	
<b>Laboratory of Geotechnical Engineering</b>	
Academic Staffs:	<b>Hino, T.</b>
Research Fields:	Theory and practice of geotechnical engineering prediction and prevention of ground disaster, Advanced geotechnical engineering, Advanced geo-environmental engineering, Geomechanics and rock engineering, Advanced soil mechanics
<b>Laboratory of Structural Engineering</b>	
Academic Staffs:	<b>Obiya, H.</b>
Research Fields:	Advanced earthquake engineering, Theory of basic and application of large scale structure systems, Advanced structural analysis, System analysis of structures, Advanced structural design, Advanced computational mechanics
<b>Laboratory of Construction Materials</b>	
Academic Staffs:	<b>Ito, Y.</b>
Research Fields:	Improvement of mechanical properties of construction materials, Utilization of waste materials, Advanced concrete engineering, Maintenance management of concrete structures, Development of inspection technique for concrete structure, Advanced geotechnical materials, Geotechnical materials engineering
<b>Environmental System Engineering</b>	
<b>Laboratory of Water Management System</b>	
Academic Staffs:	<b>Yamanishi, H. Narumol, V. Oshikawa, H.</b>
Research Fields:	Water resources engineering, Wastewater treatment systems, Computational hydraulics and remote sensing engineering for water environment, Water resources management, Water environmental systems engineering, Environmental systems engineering, Water pollution control systems, Advanced hydraulic network system planning, Planning theory on water environment
<b>Laboratory of Urban System and Environment</b>	
Academic Staffs:	<b>Li, H. Inohae, T.</b>
Research Fields:	Transportation system and planning, Urban development and urban systems, Residential environment evaluation, Prevention for urban disaster, Urban energy management, Urban environmental evaluation
<b>Architecture and Urban Design</b>	
<b>Laboratory of Urban Design and Architecture</b>	
Academic Staffs:	<b>Mishima, N. Goto, R. Miyahara, M.</b>
Research Fields:	Urban design and planning, Architectural design, Architectural planning, Land- and townscape design, Regenerative design of architecture and urban space, Preservation of historic environment, Regional disaster prevention plan
<b>Laboratory of Environmental Design for Architecture</b>	
Academic Staffs:	<b>Kojima, S. Nakaohkubo, K.</b>
Research Fields:	Building thermal environment, Urban thermal environment, Energy conservation of building environment, HVAC control for building environment

<b>Biological and Material Engineering Course</b>	
<b><i>Biomedical Engineering</i></b>	
<b>Laboratory of Intelligent Control Engineering</b>	
Academic Staffs:	<b>Goto, S.                      Sugi, T.                      Matsuda, Y.</b>
Research Fields:	Medical systems control, Plant systems control, Remote systems control, Mechatronic systems control and robotics, Reliability analysis for power plant, Control systems design
<b>Laboratory of Biosensors</b>	
Academic Staffs:	<b>Kimoto, A.</b>
Research Fields:	Intelligent-composite multisensors, Tactile sensors mimicking human perceptions, Non-invasive imaging with composite sensors
<b>Laboratory of Applied Computing</b>	
Academic Staffs:	<b>Muramatsu, K.</b>
Research Fields:	Numerical analysis of electromagnetic field, Optimal design of electromagnetic apparatus, Modelling of magnetic materials
<b>Laboratory of Fluid Engineering</b>	
Academic Staffs:	<b>Hashimoto, T.                      Sumi, T.</b>
Research Fields:	Compressible fluid flow, Effective utilization of fluid energy, Multiphase flow
<b>Laboratory of Smart Sensing</b>	
Academic Staffs:	<b>Khan, T. I.</b>
Research Fields:	Smart sensing of biomedical engineering dynamics, Acoustics and Diagnostics, Artificial Intelligence, Sensing systems control, Non-destructive testing
<b>Laboratory of Robotics and Computational Intelligence</b>	
Academic Staffs:	<b>Izumi, K.</b>
Research Fields:	Robotics, Mechatronics, Computational Intelligence, Machine learning
<b><i>Advanced Material Chemistry</i></b>	
<b>Laboratory of Functional Ceramics</b>	
Academic Staffs:	<b>Yada, M.</b>
Research Fields:	Education and studies on structural and functional ceramics, Advanced inorganic materials, Preparation of ceramics: solid state reaction, sol-gel process, reactive infiltration, Eco-friendly ceramics: luminescence materials for energy-saving, ceramic recycle and porous ceramics for environmental cleanup, Nano-size functional ceramics: nano-fiber, nano-tube, nano-composites, Ceramic composite
<b>Laboratory of Advanced Organic Materials</b>	
Academic Staffs:	<b>Takeshita, M.</b>
Research Fields:	Advanced supramolecular chemistry, Molecular design of advanced materials
<b>Laboratory of Environmental Chemical Engineering</b>	
Academic Staffs:	<b>Kawakita, H.</b>
Research Fields:	Separation and removal material preparation of metals, Modified saccharides and polysaccharides synthesis using enzymatic reaction
<b>Laboratory of Photoreceptor proteins</b>	
Academic Staffs:	<b>Fujisawa, T.</b>
Research Fields:	Photosensing, energy production, and luminescence of proteins, Vibrational spectroscopy, Vibrational optical activity
<b><i>Inorganic Materials Chemistry</i></b>	
<b>Laboratory of Coordination Chemistry</b>	
Academic Staffs:	<b>Koikawa, M.                      Yamada, Y.</b>
Research Fields:	Education and studies on synthesis, structure, and physical properties of metal complexes, Structural aspects of metal complexes, Basic coordination chemistry
<b><i>Organic Materials Chemistry</i></b>	
<b>Laboratory of Advanced Organic Materials</b>	
Academic Staffs:	<b>Narita, T.</b>
Research Fields:	Education and studies on syntheses, structures and properties of polymers and functional organic materials, Polymeric material sciences, Structure of organic thin films
<b>Laboratory of Advanced Biological Materials</b>	
Academic Staffs:	<b>Osada, S.</b>
Research Fields:	Synthesis and structure of biologically active peptides, Chemistry of ion channel forming peptides, Mechanism-based design and synthesis of enzyme or receptor inhibitors

<b><i>Environmental Physical Chemistry</i></b>	
<b>Laboratory of Physical Chemistry for Biological Molecules</b>	
Academic Staffs:	<b>Unno, M.</b>
Research Fields:	Molecular Spectroscopy, Biophysics of Photoreceptor Proteins
<b>Laboratory of Physical Chemistry of functionalized materials</b>	
Academic Staffs:	<b>Sakaguchi, K.</b>
Research Fields:	Functionalized carbon materials, Fabrication and evaluation of organic devices
<b>Laboratory of Bioelectrochemistry</b>	
Academic Staffs:	<b>Tominaga, M.</b>
Research Fields:	Bioelectrochemistry, Bio-fuel cell
<b><i>Environmental Chemistry and Engineering</i></b>	
<b>Laboratory of Environmental Chemical Engineering</b>	
Academic Staffs:	<b>Ohto, K.</b> <b>Morisada, S.</b>
Research Fields:	Advanced environmental chemistry



# ACADEMIC STAFFS ATTENDING EPAD COURSES AND THEIR RESEARCH INTERESTS AND MAJOR FIELDS

## GRADUATE SCHOOL OF SCIENCE AND ENGINEERING [DOCTORAL COURSE]

<b>Mathematical and Information Science Course</b>	
<i>Data Science</i>	
<b>Laboratory of Data Science</b>	
Academic Staffs:	<b>Minamoto, T.</b>
Research Fields:	Numerical Verification, Image Processing, Signal Processing, Digital Watermarking, Wavelet Analysis, Applied Mathematics, Data Science, Machine Learning
<i>Computer Science and Information Engineering</i>	
<b>Laboratory of Smart System</b>	
Academic Staffs:	<b>Matsumae, S.                      Nakayama, K.</b>
Research Fields:	Intelligent Informatics, Artificial Intelligence, Parallel and Distributed Algorithms
<b>Laboratory of Cyber Physical System</b>	
Academic Staffs:	<b>Fukuda, O.                      Okumura, H.</b>
Research Fields:	Artificial intelligence, Robotics, Intelligent sensing, Data science, Data visualization, Biological system, Remote sensing, Medical image processing
<b>Laboratory of Fundamental and Applied Informatics</b>	
Academic Staffs:	<b>Hanada, E.                      Hori, Y.                      Okazaki, Y.</b>
Research Fields:	Information/Communication Systems in Clinical medicine/Healthcare/Welfare, Hospital Facilities, Information and Systems in Education, Computational Science, Information network, Network security

<b>Mechanical and Electrical Energy Engineering Course</b>	
<i>Thermo-Fluid Energy Engineering</i>	
<b>Laboratory of Thermal Engineering</b>	
Academic Staffs:	<b>Mitsutake, Y.                      Kariya, K.                      Ishida, K.</b>
Research Fields:	Thermodynamics, energy conversion, power plant systems, Heat exchanger, condensation, evaporation, absorption
<b>Laboratory of Fluid Engineering</b>	
Academic Staffs:	<b>Kinoue, Y.                      Shiomi, N.</b>
Research Fields:	Turbomachinery, compressible fluid flow, effective utilization of fluid energy, multiphase flow
<i>Material and Design Engineering</i>	
<b>Laboratory of Mechanics of Materials, Solid and Structures</b>	
Academic Staffs:	<b>Hagihara, S.                      Tadano, Y.                      Taketomi, S.                      Morita, S.</b>
Research Fields:	Strength of materials, Advanced solid mechanics, Computational mechanics, Numerical analysis for structures, Fatigue strength of metals and advanced materials
<b>Laboratory of Design and Production Engineering</b>	
Academic Staffs:	<b>Hasegawa, H.                      Mawatari, T.                      Ohshima, F.</b>
Research Fields:	Design of machinery and machine elements, Tribology of machine elements, Surface engineering
<b>Laboratory of Control Engineering</b>	
Academic Staffs:	<b>Sato, K.</b>
Research Fields:	Control theory, robust control, adaptive control
<i>Ocean Energy Engineering</i>	
<b>Laboratory of Ocean Engineering</b>	
Academic Staffs:	<b>Imai, Y.                      Murakami, T.</b>
Research Fields:	Wave energy conversion system, Marine hydrodynamics, Floating system
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Academic Staffs:	<b>Arima, H.</b>
Research Fields:	Boiling heat transfer, two-phase flow, effective utilization of thermal energy
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Academic Staffs:	<b>Ikegami, Y.</b>
Research Fields:	Ocean thermal energy conversion plant, development of thermal energy conversion system
<b>Laboratory of Offshore Wind Energy Systems</b>	
Academic Staffs:	<b>Yoshida, S.</b>
Research Fields:	Rotor aerodynamic, aero-elastics, floating offshore wind turbine, wind farm

<b>Electronics, Information and Communication</b>	
<b>Laboratory of Advanced Microwave Engineering</b>	
Academic Staffs:	<b>Tanaka, Takayuki. Nishiyama, E.</b>
Research Fields:	Microwave circuits, Planar antennas, Wireless power transfer, Wireless communication systems
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Academic Staffs:	<b>Itoh, H. Fukumoto, H.</b>
Research Fields:	Artificial general intelligence, Adaptive robots, Educational support system, Human interface
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Academic Staffs:	<b>Guo, Q. Tanaka, Tooru.</b>
Research Fields:	Optoelectronic materials and devices (Light emitting diodes, Solar cells, etc), Epitaxial growth and characterization of semiconductors, Synchrotron light application for material characterization
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Academic Staffs:	<b>Wakuya, H.</b>
Research Fields:	Artificial Intelligence, Smart Robotic System, Biomedical Instrumentation
<b>Advanced Power Electronics</b>	
<b>Laboratory of Plasma Energy Engineering</b>	
Academic Staffs:	<b>Ohtsu, Y. Ihara, S.</b>
Research Fields:	Plasma source for semiconductor manufacturing process, Thin film preparation, Dry etching process, High voltage engineering, Pulsed power engineering, Plasma engineering
<b>Laboratory of Surface and Interface Dynamics</b>	
Academic Staffs:	<b>Takahashi, K.</b>
Research Fields:	Synchrotron light application, Electron spectroscopy, Nano-scale materials

<b>Biological and Material Engineering Course</b>	
<b>Biomedical Engineering</b>	
<b>Laboratory of Intelligent Control Engineering</b>	
Academic Staffs:	<b>Goto, S. Sugi, T. Matsuda, Y.</b>
Research Fields:	Medical systems control, Plant systems control, Remote systems control, Mechatronic systems control and robotics, Reliability analysis for power plant, Control systems design
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Academic Staffs:	<b>Kimoto, A.</b>
Research Fields:	Intelligent-composite multisensors, Tactile sensors mimicking human perceptions, Non-invasive imaging with composite sensors
<b>Laboratory of Applied Computing</b>	
Academic Staffs:	<b>Muramatsu, K.</b>
Research Fields:	Numerical analysis of electromagnetic field, Optimal design of electromagnetic apparatus, Modelling of magnetic materials
<b>Laboratory of Fluid Engineering</b>	
Academic Staffs:	<b>Hashimoto, T. Sumi, T.</b>
Research Fields:	Compressible fluid flow, Effective utilization of fluid energy, Multiphase flow
<b>Laboratory of Smart Sensing</b>	
Academic Staffs:	<b>Khan, T. I.</b>
Research Fields:	Smart sensing of biomedical engineering dynamics, Acoustics and Diagnostics, Artificial Intelligence, Sensing systems control, Non-destructive testing
<b>Laboratory of Robotics and Computational Intelligence</b>	
Academic Staffs:	<b>Izumi, K.</b>
Research Fields:	Robotics, Mechatronics, Computational Intelligence, Machine learning

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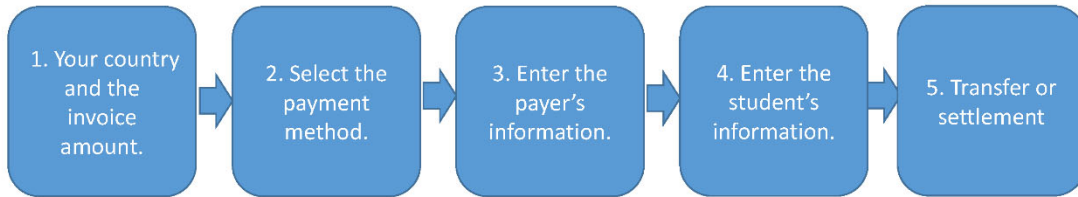
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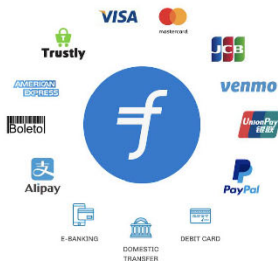
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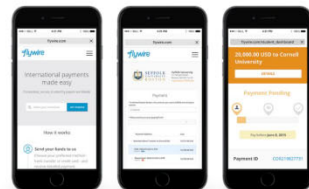
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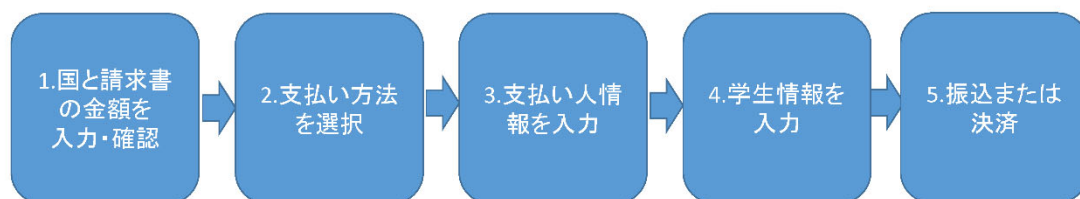
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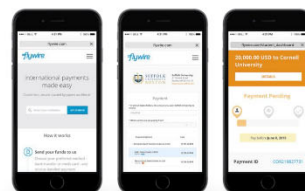
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**メリット3:**  
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