

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
博士後期課程（外国人留学生－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)**

(Doctor Course)

**October , 2023
April , 2024**

| Enrollment | Application Deadline | Announce of Results |
|-----------------|----------------------|---------------------|
| October 1, 2023 | June 2, 2023 | July, 2023 |
| April 1, 2024 | November 25, 2023 | January, 2024 |

Graduate School of Science and Engineering
SAGA UNIVERSITY

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**Education Program of Advanced T-shaped Person
for Co-development of ASEAN and Japan (EPAT)**

(Doctor Course)

October , 2023

April , 2024

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GUIDE FOR THE APPLICATION FOR
THE FOREIGN STUDENTS OF
EDUCATION PROGRAM OF ADVANCED T-SHAPED PERSON
FOR CO-DEVELOPMENT OF ASEAN AND JAPAN (EPAT)

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 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 will start 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 Doctor Course from the academic year of October, 2023 and April 2024.

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 Doctor 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, 2023 or April 2024 and they can enter the EPAT course immediately after completing their Master's Degree program without learning Japanese language.

QUALIFICATIONS

* For applicants who wish to enroll in April 2024, please replace "September 2023" with "March 2024".

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, 2023.
 - 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, 2023.
 - 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, 2023.

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 博士後期課程
私費留学生募集要項

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、併せて企業的視野と 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 月にスタートします。ここに、2023 年 10 月入学、2024 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、企業的視野と 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的視野、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、連絡をとることをお奨めします。

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 2023 年 10 月もしくは 2024 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。

応募資格

*2024 年 4 月入学希望者は「2023 年 9 月」を「2024 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 2023 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 2023 年 9 月までに授与される見込みの者

- 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, 2023, 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, 2023 for admission in October 2023, or by October 27, 2023 for admission in April 2024, 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 2023, 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, 2023.
- 3) Admission shall be canceled if the applicant fails to receive the Master's Degree on or before September, 2023.
- 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, 2023 or April 1, 2024.

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 EPAT. 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 2023 for applicants applying for admission in October, 2023, and in January 2024 for applicants applying for admission in April 2024.
- 3. 5 candidates will be selected from applicants for admission in October 2023 and April 2024, respectively.

APPLICATION PROCEDURE

- 1. Applicants should prepare the following documents to be forwarded to the Entrance Examination Office, Saga University
* For applicants who wish to enroll in April 2024, please replace "September 2023" with "March 2024".
① **Application Form** (Form A).
② **Field of Study and Study Program** (Form B). (This should be printed on both sides.)

- 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、2023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、2023年10月入学の場合は2023年5月10日までに、2024年4月入学の場合は2023年10月27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、2023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) 2023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、2023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2023年10月1日または2024年4月1日です。

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、EPAT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2023年10月入学希望者は2023年7月に、2024年4月入学希望者は2024年1月に本学より志願者へ通知します。
- 3. 定員は2023年10月入学、2024年4月入学でそれぞれ5名です。

申請

*2024年4月入学希望者は「2023年9月」を「2024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。
 - 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 Official transcripts of **Bachelor's degree**, and **Master's degree** or certificate representing that the applicant will be conferred Master's degree by September, 2023. 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 it's 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..

The letters of recommendation and reference(s) should indicate the English proficiency of the applicant. Enclose, therein, a certificate indicating the scores of TOEFL or a corresponding English Ability Test, if any.
 - 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 **Entrance Examination Fee:** 30,000 Yen. The entrance examination fee should be transferred as a postal money order at post office, or sent as a check (US dollar) to Entrance Examination Office of Saga University. Note that in the case of a check, if amount of exchanged Japanese yen was below 30,000 Yen, the check cannot be received by Entrance Examination Office of Saga University.
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**.

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 Doctor 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.

- 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、2023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いならばなりません。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

納入方法としては、郵便局においてポスタルマネーオーダー（国際送金）で送金する又は銀行で送金小切手（USドル）に替えて、それを出願書類と併せて送付するなどがあります。ただし、送金小切手の場合、本学が日本円に換金して30,000円に満たない場合は、出願書類を受理しませんので、不足が無いように注意してください。

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。

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。
 - a. 書類上の不正申告
 - 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。

CORRESPONDENCE

The application form of the EPAT 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@mail.admin.saga-u.ac.jp

問合せ先

EPAT の申請書等は、下記あてに航空便で送ってください。ファックスや E メール等での出願は受理できません。新型コロナウイルス感染症等の影響で締め切りまでに書類の郵送が困難な場合は、下記の E メールアドレスへご連絡ください。

〒840-8502

日本国佐賀県佐賀市本庄町 1 番地

佐賀大学学務部入試課

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

Email: epat@mail.admin.saga-u.ac.jp

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

Graduate School of Science and Engineering [Doctor course]

Mechanical and Electrical Energy Engineering Course

Thermo-Fluid Energy Engineering

- Thermal Engineering* Miyara, A., Mitsutake, Y., Kariya, K. and Ishida, K.
Thermodynamics, energy conversion, power plant systems
Heat exchanger, condensation, evaporation, absorption
- Fluid Engineering* Kinoue, Y. and Shiomi, N.
Turbomachinery, compressible fluid flow, effective utilization of fluid energy, multi-phase flow
- Fluid Engineering* Matsuo, S.
Compressible fluid flow, effective utilization of fluid energy, multiphase flow

Material and Design Engineering

- Mechanics of Materials, Solid and Structures*
..... Hagihara, S., Hattori, N., Tadano, Y., Taketomi, S. and Morita, S.
Strength of materials
Advanced solid mechanics
Computational mechanics
Numerical analysis for structures
Fatigue strength of metals and advanced materials
- Design and Production Engineering* Hasegawa, H., Mawatari, T. and Ohshima, F.
Design of machinery and machine elements
Tribology of machine elements
Surface engineering
- Control Engineering* Sato, K.
Control theory, robust control, adaptive control

Ocean Energy Engineering

- Ocean Engineering* Imai, Y. and Murakami, T.
Wave energy conversion system, Marine hydrodynamics, Floating system
- Thermal Engineering* Arima, H.
Boiling heat transfer, two-phase flow, effective utilization of thermal energy
- Thermal Energy Conversion Systems* Ikegami, Y.
Ocean thermal energy conversion plant, development of thermal energy conversion system
- Offshore Wind Energy Systems* Yoshida, S.
Rotor aerodynamic, aero-elastics, floating offshore wind turbine, wind farm

Electronics, Information and Communication

- Advanced Microwave Engineering*..... Toyoda, I., TanakaTakayuki and Nishiyama, E.
Microwave circuits
Planar antennas
Wireless power transfer
Wireless communication systems
- Advanced Computational Engineering*..... Itoh, H. and Fukumoto, H.
Artificial general intelligence
Adaptive robots
Educational support system
Human interface
- Advanced Optoelectronics*..... Guo, Q. and Tanaka Tooru
Optoelectronic materials and devices (Light emitting diodes, Solar cells, etc)
Epitaxial growth and characterization of semiconductors
Synchrotron light application for material characterization
- Bionic and Cybernetic Engineering*..... Wakuya, H.
Artificial Intelligence
Smart Robotic System
Biomedical Instrumentation
- Photovoltaic System*..... Hara, S.
Parameter estimation of photovoltaic models
Diagnosis of large-scale photovoltaic power plant

Advanced Power Electronics

- Microwave Electronic Devices and Circuits*..... Oishi, T.
High power and high frequency electronic devices using wide bandgap semiconductors
Device modeling technology
- Plasma Energy Engineering*..... Ohtsu, Y. and Ihara, S.
Plasma source for semiconductor manufacturing process
Thin film preparation
Dry etching process
High voltage engineering
Pulsed power engineering
Plasma engineering
- Surface and Interface Dynamics*..... Takahashi, K.
Synchrotron light application
Electron spectroscopy
Nano-scale materials

Civil Engineering and Architectural Design Course

Civil Engineering

- Geotechnical Engineering* Hino, T.
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
- Structural Engineering* Obiya, H.
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
- Construction Materials* Ito, Y.
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

Environmental System Engineering

- Water Management System* Ohgushi, K., Yamanishi, H., Narumol, V. and Oshikawa, H.
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
- Urban System and Environment* Li, H. and Inohae, T.
Transportation system and planning
Urban development and urban systems
Residential environment evaluation
Prevention for urban disaster
Urban energy management
Urban environmental evaluation

Architecture and Urban Design

- Urban Design and Architecture* Mishima, N., Goto, R. and Miyahara, M.
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
- Environmental Design for Architecture*Kojima, S. and Nakaohkubo, K.
Building thermal environment
Urban thermal environment
Energy conservation of building environment
HVAC control for building environment

Biological and Material Engineering Course

Biomedical Engineering

- Intelligent Control Engineering*..... Goto, S., Sugi, T. and Matsuda, Y.
Medical systems control
Plant systems control
Remote systems control
Mechatronic systems control and robotics
Reliability analysis for power plant
Control systems design
- Biosensors*..... Kimoto, A.
Intelligent-composite multisensors
Tactile sensors mimicking human perceptions
Non-invasive imaging with composite sensors
- Applied Computing*..... Muramatsu, K. and Dozono, H.
Numerical analysis of electromagnetic field
Optimal design of electromagnetic apparatus
Modelling of magnetic materials
Soft computing
Self-organizing maps
- Fluid Engineering*..... Hashimoto, T. and Sumi, T.
Compressible fluid flow
Effective utilization of fluid energy
Multiphase flow
- Biomedical Sensing* Md. T. I. Khan
Sensing systems of biomedical engineering dynamics
- Robotics and Computational Intelligence* Izumi, K.
Robotics
Mechatronics
Computational Intelligence
Machine learning

Advanced Material Chemistry

- Functional Ceramics* Yada, M.
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
- Advanced Organic Materials*..... Takeshita, M.
Advanced supramolecular chemistry
Molecular design of advanced materials
- Environmental Chemical Engineering*.....Kawakita, H.
Separation and removal material preparation of metals
Modified saccharides and polysaccharides synthesis using enzymatic reaction
- Photoreceptor proteins* Fujisawa, T.
Photosensing, energy production, and luminescence of proteins
Vibrational spectroscopy
Vibrational optical activity

Chair of Chemistry and Applied Chemistry

Inorganic Materials Chemistry

- Coordination Chemistry* Koikawa, M. and Yamada, Y.
Education and studies on synthesis, structure, and physical properties of metal complexes
Structural aspects of metal complexes
Basic coordination chemistry

Organic Materials Chemistry

- Advanced Organic Materials*..... Narita, T.
Education and studies on syntheses, structures and properties of polymers and functional organic materials
Polymeric material sciences
Structure of organic thin films
- Advanced Biological Materials*Osada, S.
Synthesis and structure of biologically active peptides.
Chemistry of ion channel forming peptides.
Mechanism-based design and synthesis of enzyme or receptor inhibitors.

Environmental Physical Chemistry

- Physical Chemistry for Biological Molecules* Unno, M.
Molecular Spectroscopy
Biophysics of Photoreceptor Proteins
- Physical Chemistry of functionalized materials* Sakaguchi, K.
Functionalized carbon materials
Fabrication and evaluation of organic devices
- Physical Chemistry for bioelectrochemistry*..... Tominaga, M.
Bioelectrochemistry
Bio-fuel cell

Environmental Chemistry and Engineering

Environmental Chemical Engineering..... Ohto, K. and Morisada, S.
Advanced environmental chemistry

Solution Chemistry..... Takamuku, T.
Education and studies on structure and dynamics of liquids and solutions
Mixing state of binary solutions on nano-scale
Solvation structure of biomolecules in binary solutions
Physicochemical properties of room-temperature ionic liquids
Structure and dynamics of liquids confined in nano-space

**EDUCATION PROGRAM OF ADVANCED T-SHAPED PERSON
FOR CO-DEVELOPMENT OF ASEAN AND JAPAN (EPAT)**

**GRADUATE SCHOOL OF SCIENCE AND ENGINEERING,
SAGA UNIVERSITY**

A P P L I C A T I O N F O R M

INSTRUCTIONS (記入上の注意)

1. Application should be typewritten or written in Roman block capitals.
(記入は楷書又は大文字のローマ字体を用いること。)
2. Numbers should be written in Arabic figures.
(数字は算用数字を用いること。)
3. Year should be written in the Anno Domini system.
(年号はすべて西暦とすること。)
4. Proper nouns should be written in full and not be abbreviated.
(固有名詞はすべて正式な名称とし、一切省略しないこと。)
5. An examination fee of 30,000 yen should be enclosed.
(検定料 30,000 円を添えること。)
6. Write your name and the address within the box below for notifying the result of the selection. This box will be used for the addressing stickers.
(合格通知書等を送付するので氏名と住所を下記欄に記入のこと。
この欄は住所ラベルとして使用する。)

Name :

Present
Address :

Tel/Fax :

EDUCATION PROGRAM OF ADVANCED T-SHAPED PERSON
FOR CO-DEVELOPMENT OF ASEAN AND JAPAN (EPAT)
GRADUATE SCHOOL OF SCIENCE AND ENGINEERING, SAGA UNIVERSITY
(DOCTOR COURSE)

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(博士後期課程)
入学志願票

Course

- Mechanical and Electrical Energy Engineering
- Civil Engineering and Architectural Design
- Biological and Material Engineering

Paste a passport sized photograph or digital image taken within the past 6 months. Write your name and nationality in block letters on the back of the photo.

(4.5 cm × 3.5 cm photo)
(写真 (4.5 cm × 3.5cm))

Period of Hope for Admission : October, 2023 April, 2024

Name of the desired supervisor (指導を希望する主指導教員名をかならず記入すること。)

1. Name in full, in native language (姓名(自国語))

_____, _____, _____
(Family name) (First name) (Middle name)

In Roman block capitals (ローマ字)

(Sex)
 Male (男)
 Female (女)

_____, _____, _____
(Family name) (First name) (Middle name)

(Marital Status)
 Single (未婚)
 Married (既婚)

2. Nationality (国籍)

3. Date of birth (生年月日) Year 19 __, Month __, Date __, Age __ (As of April 1, 2023)

(年) (月) (日) (年齢)

4. Present status; with the name of the university attended, or of the employer (現職(在学大学名又は勤務先名まで記入すること))

5. Present address and telephone number, facsimile number or E-mail address

(現住所及び電話, ファックス番号, E-mail アドレス)

Present address (現住所): _____

電話番号/FAX 番号(Telephone/facsimile number): _____

E-mail address: _____

6. Permanent address (本籍): _____

7. Field of specialization studied in the past (Be as detailed and specific as possible.)

(過去に専攻した専門分野(できるだけ具体的に詳細に書くこと。))

8. Educational background (学歴)

| | Name and Address of School (学校名及び所在地) | Year and Month of Entrance and Completion (入学及び卒業年月) | Amount of time spent at the school attended (修学年数) | Diploma or Degree awarded, Major subject (学位・資格, 専攻科目) When taking leave of absence, the period and reason. (休学した場合はその期間・理由) |
|--|--|---|---|---|
| Elementary Education (初等教育) | Name (学校名) | From (入学) | years (年) | |
| Elementary School (小学校) | Location (所在地) | To (卒業) | and months (月) | |
| Secondary Education (中等教育) | Name (学校名) | From (入学) | years (年) | |
| Lower Secondary School (中学) | Location (所在地) | To (卒業) | and months (月) | |
| Upper Secondary School (高校) | Name (学校名) | From (入学) | years (年) | |
| | Location (所在地) | To (卒業) | and months (月) | |
| Higher Education (高等教育) | Name (学校名) | From (入学) | years (年) | |
| Undergraduate Level (大学) | Location (所在地) | To (卒業) | and months (月) | |
| Graduate Level (大学院) | Name (学校名) | From (入学) | years (年) | |
| | Location (所在地) | To (卒業) | and months (月) | |
| Total years of schooling mentioned above (以上を通算した全学校教育修学年数) as of April 1, 2023 (2023年4月1日現在) | | years(年) | | |

* If the blank spaces above are not sufficient for the information required, please attach a separate sheet ((注)上欄に書ききれない場合には、適当な別紙に記入して添付すること。)

9. State the titles or subjects of books or papers (including graduation thesis authored by the applicant), if any, with the name and address of publisher and the date of publication.
(著書, 論文(卒業論文を含む。))があればその題名, 出版社名, 出版年月日, 出版場所を記すこと。)

* Accompany this form with a summary of the papers mentioned above. ((注)論文の概要を添付のこと)

10. Employment Record: Begin with the most recent employment, if applicable. (職歴)

| Name and address of organization (勤務先及び所在地) | Period of employment (勤務期間) | Position (役職名) | Type of work (職務内容) |
|--|--------------------------------|-------------------|------------------------|
| | From To | | |
| | From To | | |

11. Japanese language background, if any (日本語の学習歴)

i) Name and address of institution (学習機関及びその住所)

ii) Period of study: from _____ to _____, _____
 (学習期間) Year (年) Month (月) Year (年) Month (月) Years (年間)

iii) Name of teacher (教師名)

iv) Japanese language proficiency: Evaluate your level and insert an X where appropriate in the following blank space. (日本語能力を自己評価のうえ、該当欄に×印を記入すること。)

| | Excellent(優) | Good(良) | Fair(可) | Poor(不可) |
|-----------------|--------------|---------|---------|----------|
| Reading (読む能力) | | | | |
| Writing (書く能力) | | | | |
| Speaking (話す能力) | | | | |

12. Foreign language proficiency: Evaluate your level and insert an X where appropriate in the following blank space. (外国語能力を自己評価のうえ、該当欄に×印を記入すること。)

| | Excellent(優) | Good(良) | Fair(可) | Poor(不可) |
|-------------|--------------|---------|---------|----------|
| English(英語) | | | | |
| French(仏語) | | | | |
| German(独語) | | | | |
| Spanish(西語) | | | | |
| | | | | |
| | | | | |

13. Family background (家族状況)

| Name(氏名) | Relationship (続柄) | Age (年齢) | Occupation (職業) |
|----------|----------------------|-------------|--------------------|
| | | | |
| | | | |
| | | | |
| | | | |

14. Accompanying Dependents (Provide the following information if you plan to bring any family members to Saga, Japan.) 同伴家族欄 (佐賀に来る場合, 同伴予定の家族がいる場合に記入すること。)
 * He/She is advised to take into consideration various difficulties and the great expense that will be involved in finding living quarters. Therefore, those who wish to be accompanied by their families are advised to come alone first and let their dependents come after suitable accommodation has been found.

(注) 家族用の宿舎を見つけることは相当困難であり賃貸料も非常に割高になるのであらかじめ承知されたい。このため、留学生はまず単身で佐賀に来て、適当な宿舎をみつけた後、家族を呼び寄せること。

| Name (氏名) | Relationship (続柄) | Age (年齢) |
|--------------|----------------------|-------------|
| | | |
| | | |
| | | |

15. Person to be notified in applicant's home country in case of emergency: (緊急の際の母国の連絡先)

i) Name in full(氏名) : _____

ii) Address : with telephone number, facsimile number, e-mail address:(住所:電話番号,ファックス番号及び e-mail アドレスを記入のこと。)

現住所(present address) : _____

電話番号/FAX 番号(Telephone/facsimile number) : _____

E-mail address : _____

iii) Occupation (職業) : _____

iv) Relationship (本人との関係) : _____

16. Immigration Records to Japan. (日本への渡航記録)

| Date (日付) | Purpose (渡航目的) |
|------------|----------------|
| From To | |
| From To | |

17. Are you also applying to EPAD (another program at Saga University)?

(あなたは「EPAD (佐賀大学のもう一つのプログラム)」にも出願していますか?)

Yes, No.

18. (Please fill in only if you answered "Yes" in 17.) Which is your first choice, "EPAD" or "EPAT"?

(17で「はい」と答えた方のみ記入してください) あなたは「EPAD」と「EPAT」のどちらが第1志望ですか?)

EPAD, EPAT.

Date of application(申請年月日): _____

Applicant's signature(申請者署名): _____

Applicant's name (in Roman
block capitals)(申請者氏名): _____

専攻分野及び研究計画
Field of Study and Research Plan

Name in full,
in your native language

(姓名(自国語))

_____, _____
(Surname) (Given name) (Middle name)

Name in Roman capital
letters

(姓名(ローマ字))

_____, _____
(Surname) (Given name) (Middle name)

Nationality

(国籍)

Proposed study program in Japan (Outline your field of study on this side and the specific of your study program on the reverse side of this sheet. This section is one of the most important references for selection. The statement must be typewritten or written in block letters. Additional sheets of paper may be attached if necessary. If plagiarism or fraud is discovered after selection, the selection will be cancelled retroactively.)

日本での研究計画;この研究計画は、選考の重要な参考となるので、表面に専攻分野の概要を、裏面に研究計画の詳細を具体的に記入すること。記入はタイプ又は楷書によるものとし、必要な場合は別紙を追加してもよい。なお、採用後に不正、盗用等が判明した場合は遡って採用を取り消す。

If you have Japanese language ability, write in Japanese.

(相当の日本語能力を有する者は、日本語により記入すること。)

1 Present Field of study(現在の専攻分野)

2 Your research topic in Japan: Describe articulately the research you wish to carry out in Japan.

(渡日後の研究テーマ:日本においてどういった研究がしたいかを明確に記入すること)

3 Study program in Japan: (Describe in detail and with specifics - particularly concerning the ultimate goal(s) of your research in Japan)

(研究計画: 詳細かつ具体的に記入し、特に研究の最終目標について具体的に記入すること。)

推 薦 書
LETTER OF RECOMMENDATION

佐賀大学長 様
To: President of Saga University

被推薦者
Recommendee

氏名
Full Name: _____

生年月日
Date of Birth: _____

国籍
Nationality: _____

日付
Date: _____
(month) (date) (year)

推薦者
Recommender
署名
Signature: _____

氏名
Print Name: _____

役職
Title and Institution
(or Company): _____

現住所
Present Address: _____

E メールアドレス
E-mail Address: _____

証 明 書
LETTER OF REFERENCE

佐賀大学長 様

To: President of Saga University

被証明者
Referenced person

氏名

Full Name: _____

生年月日

Date of Birth: _____

国籍

Nationality: _____

日付

Date: _____

(month) (date) (year)

証明者

Reference person

署名

Signature: _____

氏名

Print Name: _____

役職

Title and Institution

(or Company): _____

現住所

Present Address: _____

E メールアドレス

E-mail Address: _____