

佐賀大学大学院戦略的国際人材育成プログラム
工学系研究科（外国人奨学生）
学生募集要項

**Strategic International Postgraduate Program (SIPOP)
at Saga University**

2017

Guide for Application for Foreign Scholarship Students

Application Deadline: May 12, 2017.

Academic Year Start: October 1, 2017.

**Graduate School of Science and Engineering
SAGA UNIVERSITY**

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**Strategic International Postgraduate Program (SIPOP)
at Saga University**

2017

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GUIDE FOR APPLICATION FOR
THE SAGA UNIVERSITY SCHOLARSHIP
FOR STRATEGIC INTERNATIONAL POSTGRADUATE PROGRAM (SIPOP)
FOR FOREIGN STUDENTS IN SCIENCE AND TECHNOLOGY

Admission Policy

The aim of the Strategic International Postgraduate Program (SIPOP) for foreign students at the Graduate School of Science and Engineering, Saga University is to strengthen the collaboration of studies and education between Saga University and universities or institutes in Asian countries being based on their mutual academic agreements and to develop more the international activities of Saga University in the world.

Nowadays, the science and technology progresses rapidly and we have received both benefits and negative influences. For the sound development of science and technology that contributes to human life, education and research should be performed from global points of view. The scope of this program is to research the advanced science and technology and to discuss about the effects of them and solve the problems raised from technologies and human activities for mankind and environments of the earth. The program is to educate creative students having the deepened insight and professional knowledge for the advanced sciences, technologies and environment and being able to work actively in the world.

The Strategic International Postgraduate Program (SIPOP) will be carried out at the all courses in the Department of Science and Advanced Technology. Those who have already co-worked and/or studied with professors of Saga University being involved professors of respective university or institutes can apply for this program. Applicants are encouraged to decide the research fields and to designate relevant supervisors(s) given in the List of Academic Staffs, and have to get recommendations of the supervisor(s). The recommendations of the professors at your own university are also required.

Doctor's Degree (Science, Engineering or Ph.D.) will be awarded to students on successful completion of the course.

The program started in October, 2007, Rewarded students will get scholarship and the fees of entrance examination, entrance and tuition fee will be exempted. All lectures and instructions will be given in English for the oversea students to make the studies and researches easier.

The month of entrance is October, and foreign students can enter the program immediately after completing their Master's Degree without learning Japanese language.

This is a call for application to the Doctor Course for the academic year of 2017.

The guide is for oversea students.

QUALIFICATIONS

1. **Applicants:**

- a. Those who have already co-worked and/or studied with professors of Saga University being involved professors of respective university or institutes can apply for this program.
- b. Non-Japanese citizens arriving from foreign countries that are accepted as sovereign nations by the Japanese Government.

2. **Age:** Applicants must be younger than 35 years of age, as of April 1, 2017.

3. **Academic career:** Student's record of applicants should belong to a highest class in the University from which the applicant graduated. The following candidates may apply for admission:

- a. Those who have received Master's Degree from Japanese University.

佐賀大学大学院戦略的国際人材育成プログラム
佐賀大学奨学金留学生募集要項

佐賀大学大学院戦略的国際人材育成プログラム（SIPOP）はアジア諸国から優秀な外国人を受け入れ、佐賀大学とアジアの大学や研究所等と国際交流協定にもとづいて実施されている共同研究や共同教育を強化し、佐賀大学特有の実質的な国際活動を発展させようとするものです。

今日、科学技術は著しく進歩し、私たちはその恩恵と負の影響の両方を受けています。人類の幸せに資する科学技術の向上には、教育と研究は総合的かつグローバルな視点に立って取り組まなければなりません。本プログラムの目的は最先端科学技術の教育と研究を行い、その波及効果を議論し、科学技術や今日までの人類活動がもたらした地球環境の問題を解決し、より豊かな人類活動と地球環境を築くことであり、先端科学技術および環境に対して深い洞察力と専門力を有する学生を育て、世界で積極的に活躍できる創造的な学生を育てることです。

佐賀大学大学院戦略的国際人材育成プログラム（SIPOP）は佐賀大学大学院工学系研究科博士後期課程の全てのコースにおいて実施され、その教育と研究指導が行われます。国外から留学する者は佐賀大学の教授および所属する大学や研究所等を含む国際共同研究や国際共同教育（パートナーシッププログラムなど）の経験を有する学生、研究者などがこのプログラムに応募できます。志願者は、教員リストに記載されている研究分野と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、指導教員と申請大学（研究所）等の所属教員から推薦を受けなければなりません。

本コースの博士後期課程修了者には博士（理学、工学及び学術のいずれか）の学位が与えられます。

本プログラムは2007年10月から開始し、奨学金が支給され、且つ授業料等が不徴収です。すべての講義と指導は外国人のために英語で行われます。なお、入学は10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。

ここに、佐賀大学奨学金による戦略的国際人材育成プログラム（SIPOP）の2017年入学を募集いたします。

本募集要項は外国人留学生枠のものであります。

応募資格

1. 国籍：日本国籍を有さず、日本政府と国交のある国の出身者で、新たに日本国外から留学する者
2. 年齢：2017年4月1日現在で35歳未満の者
3. 学歴等：下記のいずれかに該当し、学業成績が最終出身大学等において最上位クラスに属する者
 - 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2017年9月30日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2017年9月30日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2017年9月30日までに授与される見込みの者

- 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 30, 2017.
 - 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 30, 2017.
 - 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 30, 2017.
 - 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 30, 2017, 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.
- 4. **Health:** Applicants should be in good health both mentally and physically.
 - 5. **Language proficiency:** A good working level of English is required.
 - 6. **Arrival in Japan:** Applicants should arrive in Japan by September 30, 2017, 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 the date mentioned above.
- 3) At our university, only one member of a married couple should apply. The scholarship can not be applied for when one member of a married couple has received the Japanese government scholarship.
- 4) Neither applicants for other universities in Japan for the Japanese government scholarship, nor applicants for embassy recommendation, nor applicants for the Student Exchange Support Program (scholarship for short-term study in Japan) by the Japan Student Service Organization (JASSO), nor the recipients of any scholarship from their own country are eligible for this program.
- 5) The scholarship shall be canceled if the applicant fails to receive the Master's Degree by September 30, 2017.
- 6) 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.

SCHOLARSHIP BENEFITS

- 1. Monthly allowance: A monthly amount of 70,000 Yen for the first year grade, 40,000 Yen for the second and the third year grades, respectively, shall be paid from Saga University at longest for three years from October 2017. This allowance may not be paid for the period when the recipient withdraws from the school temporally.
- 2. School fees: All school fees such as entrance examination, registration, and tuition costs, shall be waived. At the present moment, total waved amount for three years, that is equivalent of indirect support, reaches 1,919,400 Yen.

Remarks

- 1) Travel and accident insurance to/from Japan should be covered by recipient's own expense.

SELECTION AND ADMISSION

- 1. Applicants who have excellent records will take an interview or an internet interview by the desired Advisory Professor (Supervisor) after judgment of submitted papers and recommendation of the advisory supervisor. The interview or an Internet interview will confirm the experience of Partnership Program (an education program held between Saga University and your university or institute) and or Collaboration Studies or Research Program between

- 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られた者で、2017年9月30日において満24歳に達したもの
4. 健康状態：心身ともに健全な者
 5. 語学力：英語の能力が十分な者
 6. 渡日：合格した場合、2017年9月30日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) 上記に指定された期間に渡日できない者は採用を取り消されます。
- 3) 本学では、配偶者が既に国費外国人留学生である者は出願できません。また夫婦が同時に出願することはできません。
- 4) 他大学に併願している者、大使館推薦に出願している者、日本学生支援機構（JASSO）が募集を実施している「海外留学支援制度」に出願している者、自国の奨学金に申請している者及び奨学金を受給している者は出願できません。
- 5) 修士の学位を取得見込みの者で、奨学金受給候補者となったものは、2017年9月30日までに学位を取得できなければ、採用は取り消されます。
- 6) 障がい等を有する志願者で、受験上及び修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。

奨学金給付

1. 毎月の支給額：2017年10月からの最長3年間、1年次、70,000円；2年次、40,000円；3年次、40,000円が支給されます。休学期間は奨学金の支給はありません。
2. 諸経費：検定料、入学科、授業料などの諸経費は免除されます。2017年4月時点での積算によれば、在学3年間で総額1,919,400円の間接的支援を受けることになります。

注

- 1) 渡日や帰国のための旅費と旅行保険代金は受給者負担になります。

選考と入学許可

1. 志願者のうちで、提出された書類及び受け入れ側の推薦書を審査し、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等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。面接又はインターネットインタビューでは、パートナーシッププログラムの参加や佐賀大学との共同研究の有無、学力、他大学に併願をしていないこと及び奨学金受給者として決定した場合は、必ず本学へ入学すること等の確認が行われます。この面接又はインターネットインタビューの結果は、奨学金受給候補者の選考に当たり、重要な資料となります。
2. 志願者は、SIPOP選考委員会によって選考され、学業成績、研究能力、面接等の結果が優秀であり、かつ佐賀大学と出身大学等からの強い推薦がある者だけが奨学金受給者として選ばれます。奨学金受給候補者は2017年6月上旬に通知され、必ず入学するという確約の返事をするように要求されます。
3. 2017年6月に本学の奨学金受給候補者として入学を確約する時に、もし文部科学省の奨学金及びその他の奨学金を申請している場合は取り消さなくてはなりません。
4. 奨学金受給者数は4名です。ただし、このうち1名について優秀なインドネシアからの留学生を優先します。

注

- 1) 奨学金受給者として選ばれた志願者は、このプログラムに入学しなければなりません。

the two universities, and will confirm that applicant can not apply for another university and will enter Saga University certainly when the applicant is selected as a candidate of the scholarship. The academic ability of applicants will also be certified by the interview or an internet interview.

2. Applicants shall be examined by the Screening Committee of the SIPOP. Only those who have a solid academic background, research capability and recommendation from the professors of both Saga University and your university will be selected. The selected scholarship candidates will be informed and asked to reply their acceptance of the selection immediately in the beginning of June, 2017.
3. When the applicants accept their scholarship candidacy in June, 2017, they should withdraw their application for Japanese government scholarship or any other scholarship if they already applied.
4. The total number of scholarship recipients is 4. In this regard, however, one excellent Indonesian applicant is preferentially selected among them.

Remarks

- 1) Applicants selected as the scholarship student must enroll in the program. Refusal to enter the course after acceptance is not allowed.
- 2) Those who apply for Saga University are not allowed to apply for any other universities.
- 3) Those who have applied for the scholarships at Saga University and other university simultaneously will be cancelled their scholarship candidate and Saga University will not accept any scholarship students from the university recommended you at least for three years.
- 4) Those who were selected as a candidate of Saga University Scholarship they can not apply for the Monbukagakusho (Japanese government) scholarship or any other scholarship.

ENROLLMENT

1. Date of enrollment is scheduled on the beginning of October, 2017. The exact date will be informed to a successful candidate.
2. Scholarship grantees shall be enrolled as regular graduate students of Saga University.

APPLICATION PROCEDURE

1. Applicants will download the form from the internet and should prepare the following documents to be addressed to the Dean of the Graduate School of Science and Engineering, Saga University, through the head of the universities or the institutions with which the applicants are affiliated. Applicants who presently have no formal affiliation should send the prepared documents through the Dean of the University from where they graduated.
 - ① **Application Form** (Form A).
 - ② **Application for the Scholarship** (Form B).
 - ③ **Field of Study and Study Plan along with your experience on Partnership Program and/or Collaboration Studies with Saga University** (Form C).
 - ④ **Health Certificate** in the prescribed form completed by a registered medical doctor within six months before the date of application (Form D).
 - ⑤ Official transcripts of **Bachelor's degree**, and **Master's degree or a certificate** stating that the applicant will be conferred Master's degree by September 30, 2017. In the case that the applicant will be qualified by the criterion 3-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.
 - ⑥ Transcripts of **Academic Record** issued by the university authorities and its English translation.
 - ⑦ Certificate of a student's record of highest class in the University from which the applicant graduated. (GPA, ranking at the class, classification of ABC, or another corresponding numerical index)
 - ⑧ English summary of **Master Thesis** or it's equivalent if available, not exceeding four

- 入学辞退は許可されません。
- 2) 本学へ申請している者は、その他の大学へ申請することは認められません。
 - 3) 志願者が、本学の奨学金受給者として入学を許可されていても、他大学と併願していることが判明した場合は、奨学金受給者としての入学許可が取り消されます。さらに、応募大学の推薦資格が3年間取り消されます。
 - 4) 本プログラムの奨学金受給者として選ばれた志願者は文部科学省の奨学金及びその他の奨学金への申請はできません。

入学

1. 入学日は2017年10月初旬を予定しており、合格者に対し別途通知します。
2. 奨学金受給者は、本学の正規大学院生として登録されます。

申請

1. 志願者は、在籍している大学や機関の長を通じ、下記の出願書類を本学大学院工学系研究科長名あて作成してください。現在、大学や機関に所属していない場合は、修了した大学の長を通じて送付してください。

- ① 申請書(様式A)
- ② 奨学金申請書(様式B)
- ③ パートナーシッププログラムや共同研究の実績を踏まえた研究分野と研究計画(様式C)
- ④ 申請日前6ヶ月以内に、公認の医者によって記入された指定の様式による健康診断書(様式D)
- ⑤ 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、2017年9月30日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3.学歴等の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。
- ⑥ 大学から出される成績証明書とその英語訳
- ⑦ 最終出身大学において最上位クラスに属することが証明されたもの(GPA, ABCのクラス分け, 具体的な順位等)
- ⑧ 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。
- ⑨ 本国の戸籍謄本又は市民権等の証明書
- ⑩ 推薦書及び証明書
 - a. 申請者が属する機関の長の推薦書(様式E)
 - b. 工学系研究科長あてに、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。

推薦書と証明書は志願者の英語能力が記されていないとなりません。もし志願者が佐賀大学奨学金受給者となった場合は、推薦書は本学へ必ず入学するということを証明する確約書のひとつとなります。

- ⑪ 英語能力を客観的に示す証明書(例えばTOEFL, TOEICなど)
- ⑫ 6cm×4cmサイズで申請日前6ヶ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2枚は申請書に貼付してください。他の1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。

2. すべての書類は書留の航空便で送付してください。2017年5月12日までに佐賀大学学務部入試課必着とします。

注

- 1) 上記の書類はA4用紙に英語でタイプしてください。

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.

- ⑨ Certificate of **Citizenship** issued by the appropriate authorities.
 - ⑩ **Recommendation and Reference**
 - a. A letter of **Recommendation** (Form E) from the head of the applicant’s affiliated institution.
 - b. Letter(s) of **Reference** from those who know the applicant’s research/study capability addressed to the Dean of the Graduate School of Science and Engineering.

The letters of recommendation and reference(s) should indicate the English proficiency of the applicant. The recommendation letter should refer to certify that the applicant will surely enter Saga University, if the applicant will be selected as a Grantee of Saga University scholarship.
 - ⑪ Certificate of English ability (for example, TOEFL, TOEIC).
 - ⑫ **Three Photographs** (hatless portrait), 6 cm×4 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.
2. All documents should be sent by registered air mail and must arrive at the Entrance Examination Office by **May 12, 2017**.

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. Applicants should ask a recommendation letter to a relevant supervisor at Saga University and submission it to the Entrance Examination Office.
- 2. The rights of a grantee of the scholarship and tuition fee waive as well as studentship shall be deprived under the following cases:
 - a) False statements on the documents.
 - b) Violation of the pledge.
 - c) Leaving and/or transferring from the Graduate school of Saga University.
 - d) Violation of school regulations, and no satisfactory academic achievement.
- 3. Grantees are recommended to be well acquainted with the Japanese language, culture, customs, etc. A skill of the Japanese language is necessary in daily life.
- 4. Grantees are expected to complete their Doctor Course Program within three years.

CORRESPONDENCE

The application form of the SIPOP 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 are not accepted in any occasion.

Entrance Examination Office Saga University
1 Honjo-machi Saga 840-8502, Japan
Fax: (+81)-952-28-8944
E-mail: sipop@mail.admin.saga-u.ac.jp

- 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、志願者へ返却することはありません。

注意事項

1. 志願者は受け入れ予定教員に推薦書を佐賀大学学務部入試課に提出するよう依頼してください。
2. 下記の場合には、志願者は奨学金の受給資格と在学資格を失います。
 - a) 書類上の不正申告
 - b) 誓約書違反
 - c) 佐賀大学大学院を退学した場合
 - d) 学則違反や成績不良
3. 奨学金受給者は、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。
4. 奨学金受給者は、3年以内に博士後期課程を修了しなければなりません。

問合せ先

SIPOP への申請書等は、下記宛に航空便で送ってください。ファックスや E メールでの出願は受理できません。

〒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

E-mail: sipop@mail.admin.saga-u.ac.jp

ORGANIZING ACADEMIC STAFFS IN THE DEPARTMENT OF SCIENCE AND ADVANCED TECHNOLOGY

Academic Staffs	Major Teaching and Research Fields
<i>Course in Electronics and Information Systems</i>	
Chair of Mathematical Science	
Pure and Applied Mathematics	
T. Ichikawa	Advanced Arithmetic Geometry
N. Nakagawa	Complex Geometry
N. Terai	Topic on Combinatorial Algebra
Y. Mashiko	Advanced Global geometry
T. Shoda	Advanced Complex Geometry
Mathematical Analysis	
R. Kajikiya	Advanced Study of Partial Differential Equations
K. Handa	Advanced Probability
Y. Hibino	Advanced Applied Mathematical Analysis
Chair of Information Science	
Information Science	
Y. Okazaki	Advanced Intelligent Educational Systems
H. Okumura	Advanced Information Processing Systems for Human and Machine Perception
S. Matsumae	Advanced Parallel and Distributed Systems
K. Nakayama	Advanced Emergent System
M. Otani	Advanced Technology in Ubiquitous Computing
Information Systems	
Y. Yamashita	Code Optimization Techniques
S. Tadaki	Complex Systems
E. Hanada	Medical/Healthcare Information Systems
O. Fukuda	Biological information Engineering
T. Kakeshita	Information Engineering
T. Minamoto	Numerical Functional Analysis
Y. Hieida	Physics of Stochastic Models
M. Hiroto	Algebraic Coding Theory and Information Theory

Chair of Electrical and Electronic Engineering

Electronics, Information and Communication

I. Toyoda and T. Tanaka	Advanced Microwave Engineering
T. Furukawa	Advanced Computational Engineering
Q. Guo	Advanced Optoelectronics
S. Satoh	High Power Laser Engineering
S. Fukai	Integrated Circuit Design
H. Wakuya	Bionic and Cybernetic Engineering
S. Hara	Photovoltaic System
S. Sasaki	Advanced Electronics Packaging Technology
T. Tanaka	Photoelectronic Materials and Devices

Advanced Power Electronics

M. Kasu	Power Electronic Devices and Materials
T. Oishi	Microwave Electronic Devices and Circuits
Y. Ohtsu and S. Ihara	Plasma Energy Engineering
K. Takahashi	Surface and Interface Dynamics

Course of Mechanical Engineering and Physical Science

Chair of Physics

Particle Physics and Cosmology

H. Aoki	String Theory
M. Tachibana	Quantum Chromodynamics in hadron
H. Kouno	Hadron Physics
K. Funakubo	Baryon Asymmetry in Universe
T. Takahashi	Particle Physics Cosmology
A. Sugiyama	High Energy experimental physics
H. Ohsumi	Particle and Nuclear Physics

Condensed Matter Physics

XG. Zheng	Condensed Matter Physics, in special, Quantum Magnetism and Multiferroics, Nano Science
M. Maki	Strongly correlated electron system
Y. Ishiwata	Physics of nanostructure
T. Endo	Simulation of quantum effect
Y. Okayama	Physics in superpressure
J. Azuma	Optical processes in condensed matter

Chair of Mechanical Engineering

Thermo-Fluid Energy Engineering

A. Miyara	Heat and Mass Transfer
Y. Kinoue and N. Shiomi	Fluid Engineering
T. Sumi	
Y. Mitsutake	Thermal Engineering

Material and Design Engineering

N. Hattori, S. Hagihara, S. Morita	Mechanics of Materials, Solids and Structures
Y. Tadano and S. Taketomi	
B. Zhang and H. Hasegawa	Design and Production Engineering
T. Tsujimura and K. Izumi	Robotics and Control
K. Sato	Control Engineering

Ocean Energy Engineering

S. Nagata and Y. Imai	Ocean Engineering
Y. Ikegami	Thermal Energy Conversion Systems
H. Arima	Thermal Engineering

Course of Environmental Science and Engineering

Chair of Chemistry and Applied Chemistry

Inorganic Materials Chemistry

M. Koikawa and Y. Yamada	Coordination Chemistry
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Organic Materials Chemistry

Unsettled	Organic Synthesis
Y. Oishi and T. Narita	Advanced Organic Materials
T. Hanamoto	Synthetic Organic Chemistry
H. Kodama	Biochemistry
T. Okajima	Organic Chemistry
S. Osada	Bioorganic Chemistry

Environmental Physical Chemistry

M. Era	Physical Chemistry of Organic Materials for Electronics and Photonics
M. Unno	Molecular Spectroscopy and Biophysics
M. Tominaga	Bioelectrochemistry, electrochemistry in nanocarbon interface and mud battery

Environmental Chemistry and Engineering

K. Ohto	Environmental Chemical Engineering
T. Takamuku	Ultra-micro Analysis
S. Morisada	Colloidal Chemical Engineering

Chair of Civil Engineering and Architecture

Civil Engineering

J. Chai, A. Sakai, T. Hino and D. Suetsugu
K. Ijima and H. Obiya
Y. Ito

Geotechnical Engineering
Structural Engineering
Construction Materials and Infrastructure
Management System

Environmental System Engineering

K. Ohgushi, H. Yamanishi
and V. Narumol
H. Li and T. Inohae

Water Environmental System

Urban System and Environment

Architecture and Urban Design

N. Mishima, and R. Gotoh
S. Kojima and K. Nakaokubo

Urban Design and Architecture
Environmental Design for Architecture

Regional Economic and Industrial Systems

M. Nakanishi
M. Shinagawa
T. Kidota
H. Tsuzuki

Regional policy on Industrial and Employment
Rural Development
Accounting Information System
Social Choice and Mechanism Design

System on Human Society and Culture

J. Hanmo
H. Miyawaki
M. Yamashita

Regional Economics and Sociology
Environmental Ecology and Law
Urban Geography

Course of Advanced Technology Fusion

Chair of Advanced Technology Fusion

Biomedical Engineering

S. Goto
S. Matsuo, T. Hashimoto and T. Sumi
K. Teramoto
K. Muramatsu
A. Kimoto
H. Dozono
N. Ueno
Md. T. I. Khan
E. Takahashi
T. Sugi

Systems Control
Fluid Engineering
Sensing Systems
Computational Electromagnetics
Instrumentation System
Soft Computing
Interface device
Biomedical Motion Sensing
Biomedical Imaging
Biomedical Signal Processing

Advanced Material Chemistry

T. Watari and M. Yada
M. Takeshita
H. Kawakita

Functional Ceramics
Advanced Organic Materials
Environmental Chemical Engineering

DETAILED RESEARCH FIELDS

Graduate School of Science and Engineering Department of Science and Advanced Technology

Chair of Mathematical Science

Research Field: Differential Geometry, Topology, Number Theory, Algebraic Geometry,
Combinatorial Algebra

Research Field: Partial Differential Equations, Probability, Complex Analysis

Chair of Information Science

Research Field: Environmental Education System supported by computers as the knowledge communication system and intelligent interface between human and computer
Development of Internet Collaboration System for Supporting International Telemedicine

Code Optimization for RISC Processors

Traffic control in high-speed networks

Research on reliable data transmission

Research Field: Basic theory on mathematical treatment and analysis of information

Construction of algebraic geometry codes having superior properties

Numerical method with guaranteed accuracy of solutions for partial differential equations

Research Field: Fundamental technologies in order to fully utilize and to design computer systems

Development of the user authentication system for the open space network

Research on Personal Data Management System, Research on Systematic Educational System for Software Engineers

Support System for Cooperative Software Development Exercise, TA Robot System for Foreign Language Education Using 3D Virtual Space, Research on Personal Data Management System, Research on Systematic Educational System for Software Engineers

Constructing error-correcting codes for ECOC

Research Field: Interface Science between Computer and Human as well as Nature

Global monitoring from space, Human Computer Interaction

Development of remote sensing image processing technique using high resolution satellite images, Development of high efficient electronic chart system for ophthalmology, Development of a virtual eyeball model

Development of Search System based on identity of feature within satellite image data

Research Field: Fundamental perspectives on intelligence, knowledge and complex behavior of natural systems

An Analysis of Information and Its Exchange between a Teacher and Students for Practical Remote Lessons

Educational system and environment with computers and networks

Chair of Electrical and Electronic Engineering

- Research Field: Communication Engineering and Advanced Circuit Technology
Microwave Circuits
Planar Antennas
Electronic Circuits
High-speed Interconnections
Communication Systems
- Research Field: Power Electronics
Electronic Devices
Plasma Energy Engineering
Surface and Interface Dynamics
- Research Field: Optoelectronic Materials and Applications
Epitaxial growth and characterization of semiconductor materials
Advanced optoelectronic devices
Photovoltaics
Network Analysis
Pulse power engineering
Synchrotron light application for materials processing and characterization
- Research Field: Advanced Computational Engineering and Artificial Intelligence
Power Engineering and Smart Power Grid System
Electromagnetic and Acoustic Analyses
Virtual Reality (VR) and Augmented Reality (AR)
Biomedical Signal Processing
Neural Networks
Intelligent Robotics
Natural Language Processing

Chair of Physics

- Research Field: Quantum Field Theory
Phase transition in Quantum Chromodynamics
Sign problem of Lattice QCD
Baryon Asymmetry
Dark Energy of Universe
Linear Collider experiment
Particle detector
- Research Field: Geometrical Frustration of $M_2(OH)_3X$
High-temperature superconductivity
Spin glass
Quantum size effect
Quantum Entanglement

Chair of Mechanical Engineering

- Research Field: Strength of Materials
Mechanics of Solids and Structures
Fatigue strength of metals and advanced materials
Computational Mechanics
Numerical Analysis Methods
- Research Field: Design and Production Engineering
Design of machinery and machine elements
Tribology of machine elements
Surface engineering
- Research Field: Heat and mass transfer
Heat exchanger, absorption condensation, evaporation
Modeling and analysis of geothermal power station
Plant system control; Modeling and control of Ocean/Spring Thermal Energy

Conversion(OTEC/STEC), Modeling and control of chemical plant
Robotics, Mechatronic system control, Simulator for articulated robot arm, Metaheuristic systems

Research Field: Thermal Energy Conversion Systems
Ocean thermal energy conversion plant, development of thermal energy conversion system

Research Field: Thermal Engineering
High density heat transport, boiling heat transfer, effective utilization of high density thermal energy

Research Field: Fluid Engineering
Turbomachinery, compressible fluid flow, effective utilization of fluid energy, multiphase flow

Chair of Chemistry and Applied Chemistry

Research Field: Coordination Chemistry
Education and studies on synthesis, structure, and physical properties of organic and metal complexes
Structural aspects of metal complexes
Basic coordination chemistry
Bondings in metal complexes

Research Field: Functional Molecular Chemistry
Education and studies on reaction, analysis, separation, and sensing of metal ions and organic molecules in artificial and biological environments
Kinetics and mechanism for environmental analysis
Advanced molecular recognition chemistry
Advanced Bioelectrochemistry

Research Field: Environmental Chemistry
Advanced environmental chemistry

Research Field: Material Engineering for Separation
Comprehensive study on separation science and technology
Separation science and technology of recycling for sustainable society

Research Field: Biomolecular Spectroscopy
Vibrational spectroscopy of biomolecules
Computational chemistry

Chair of Civil Engineering and Architecture

Research Field: Geotechnical Engineering
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

Research Field: Structural Engineering
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

Research Field: Urban Design
Basic principle and application of urban planning and transportation planning
Advanced urban space design
Advanced transportation planning
Advanced environmental evaluation

Research Field: Architecture

Town space design
Advanced Architectural environmental control
Urban and Building Environment

Research Field: Water Management System

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

Research Field: Construction Materials

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

Research Field: Accounting Information and Social Choice

Research Field: Regional Policy of Industry and Rural Development

Research Field: Economics for Developing Countries

Research Field: Environmental Ecology

Research Field: Social System and Culture

Chair of Advanced Technology Fusion

Research Field: Interface Function Engineering

Robotic Manipulator Control, Mobile Robots,
Neuro-Fuzzy Control Systems, Evolutionary Control Systems,
Behavior-based Control Systems, Self-organizing Robotic Systems,
Biorobotics, Robotics in Medicine, Human Motion Simulator,
Intelligent Robot, Soft Computing, Robotics in Industry,
Friction Compensation,
Control theory, robust control, adaptive control

Research Field: Intelligent Control Engineering

Compensation of hand movement by additional force
Power system control; Reliability analysis of equipments in power stations,
Mechatronic system control; Simulator for articulated robot arm,
Cooperative control of plural robots, Forcefree control
Non-invasive diagnosis system; Novel measurement techniques without references
are on the trial
Medical and welfare sensor system; All field of sensing system for medical and
welfare purpose are developed
Mobile and robotics multi-sensing; Advanced new sensors for mobile and robotics
are studied

Research Field: Biological System Dynamics and Informatics

Fluid Engineering
Advanced electromagnetics
Sensing Systems
Biomedical sensing
Signal processing

Research Field: Functional Ceramics

Education and studies on structural and functional ceramics

Advanced inorganic materials

Ceramics for advanced battery

Advanced ceramics and electronic ceramics

Preparation and properties of ceramics

Research Field: Physical Chemistry for Organic / Inorganic Hybrid Molecular System

Optoelectronic materials

Advanced solid state chemistry

Research Field: Functional protein chemistry

Synthesis and function of biologically active substances and their related artificial materials

Advanced computational material chemistry

Advanced synthetic organic chemistry

Chemistry of cooperative interaction

STRATEGIC INTERNATIONAL POSTGRADUATE PROGRAM
(SIPOP)
AT THE GRADUATE SCHOOL OF SCIENCE AND ENGINEERING
SAGA UNIVERSITY

APPLICATION FORM

INSTRUCTION (記入上の注意)

1. Application should be typewritten or written in Roman letters.
(記入は楷書又は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. Enter the address below for notifying the result of the selection.
(合格通知書等の送付先を下記欄に記入のこと。)

<p>To :</p> <p>Name : _____</p> <p>Present : _____ Address _____ _____</p> <p>Tel/Fax _____</p>
--

**STRATEGIC INTERNATIONAL POSTGRADUATE PROGRAM (SIPOP)
AT THE GRADUATE SCHOOL OF SCIENCE AND ENGINEERING
SAGA UNIVERSITY**

(GRADUATE SCHOOL OF SCIENCE AND ENGINEERING)

2017 年度佐賀大学大学院戦略的国際人材育成プログラム（工学系研究科博士後期課程）入学志願票

Department of Science and Advanced Technology

Courses:

- Electronics and Information Systems
- Mechanical Engineering and Physical Science
- Environmental Science and Engineering
- Advanced Technology Fusion

Chair

Chair _____

Field _____

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。)

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

(Size (6×4cm))

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

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

In Roman letters (ローマ字)

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

(Sex)
 Male (男)
 Female (女)

(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 1st, 2017)
(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、電話及びファクシミリ番号又は電子メールアドレス)

(Office) :	Telephone number _____ Facsimile number _____ E-mail address _____
(Home) :	Telephone number _____ Facsimile number _____ E-mail address _____

6. Permanent address (本籍)

7. Field of study specialized in the past (Please describe in detail as concrete 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)	Officially required years of schooling	Year and month of entrance and completion (入学及び卒業年月)	Major subject (専攻科目)	Diploma or degree awarded (学位・資格)
Elementary Education (初等教育)		Name (学校名)	years (年)	From (入学)		
Elementary School (小学校)		Location (所在地)		To (卒業)		
Secondary Education (中等教育)	Lower (中学)	Name (学校名)	years (年)	From (入学)		
		Location (所在地)		To (卒業)		
Secondary School (中学及び高校)		Name (学校名)	years (年)	From (入学)		
Upper (高校)		Location (所在地)		To (卒業)		
Higher Education (高等教育)		Name (学校名)	years (年)	From (入学)		
Undergraduate Level (大学)		Location (所在地)		To (卒業)		
Graduate Level (大学院)		Name (学校名)	years (年)	From (入学)		
		Location (所在地)		To (卒業)		
Total years of schooling mentioned above (以上を通算した全学校教育修学年数)			years (年)			

* In the case, the blank spaces above are not sufficient for information required, please accompany this form by an attached sheet. ((注)上欄に書ききれない場合には、適当に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 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、出版場所を記入すること。)

* 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		
	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 mark with a × where appropriate in the following categories. (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)	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 mark with a × where appropriate in the following categories. (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)	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)	Address (住所)	Living or Deceased (生死)	* Check your accompanying dependents to Japan. (注) 渡日する場合、同伴予 定の家族には該当欄に× 印を記入すること。
	Father(父)					
	Mother(母)					
	Spouse(配偶者)					

* All expenses incurred by the presence of dependents must be borne by the grantee. He/She is advised to take into consideration the various difficulties and great expense that will be involved in finding living quarters for them.

(注) 同伴者に必要な経費はすべて留学生の負担であり、また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ため、あらかじめ承知されたい。

14. Is there anyone in your family who has been awarded or is applying for the Japanese Government Scholarship? If yes, please give his/her name.

(家族の中に国費留学生に採用されている者または申請中の者がいればその者の氏名を記入すること。)

15. Have you been awarded the Japanese Government Scholarship in the past? If so, please give the period, the name of the university, etc.

(過去に国費留学生に採用されたことがあれば、その期間、受入れ大学名等を記入すること。)

1) Yes, I have. (ある。) Period(期間); _____

University(大学名等); _____

2) No, I have not. (ない。)

16. Are you applying for other universities as monbukagakusho scholarship or other universities except Japan? If so, give the name(s) of university(ies), month, year, amount, etc.

(他の大学に応募している場合は、その名前、期間、金額等を記入すること。)(See! p.2-3, "Selection and Admission" and "Remarks")

17. 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 or E-mail address:

(住所:電話番号,ファクシミリ番号又は電子メールアドレスも記入すること。)

Address

Telephone

Facsimile

E-mail address

iii) Occupation(職業):

iv) Relationship(本人との関係):

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

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

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):

Form B

*受験番号
第 号

APPLICATION FOR SAGA UNIVERSITY SCHOLARSHIP

佐賀大学奨学金留学生申請書 (別紙)

1. Name in full, in Roman block capitals (姓名を記入, ローマ字で表記)

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

(Sex)

Male (男)

Female (女)

2. Date of birth (生年月日)

19 _____
Year (年) Month (月) Date (日) Age (年齢) As of April 1, 2017
(2017年4月1日現在の年齢)

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

(Size (6×4cm))

3. Nationality (国籍)

4. Present address, telephone and facsimile number, E-mail address
(現住所及び電話, ファクシミリ番号, Eメールアドレス)

5. The institution you have graduated/will graduate. (卒業した, あるいは卒業予定の機関)

Institution (機関) Year (年) Month (月)

Conferred Degree : a) Bachelor Degree b) Master's Degree c) Doctoral Degree
(取得学位) (学士) (修士) (博士)

6. Field of study in Japan (日本での専攻希望)

7. If you are applying for other scholarships, state the name of sponsor, duration, amount, etc.
(他の奨学金に応募している場合は, その名前, 期間, 金額等を記入すること。)

8. Have you ever joined the partnership program of Saga University and/or the collaboration studies with professors of Saga University? If so, please give the period, the name of the program and/or the research projects, etc.

(今までに佐賀大学の教授とのパートナーシッププログラムや共同研究に参加したことがあれば, その期間・プログラム名やプロジェクト名を記入すること。)

i) Yes, I have. Period: Program and/or Project name:
(ある) Professor's name:

ii) No, I have not.
(ない)

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

Name in full, in native language _____ , _____ , _____
(姓名 (自国語)) (Family name) (First name) (Middle name)

Nationality _____
(国籍)

Proposed study program in Japan; State, in more than 600 words, the details of your major field of study and study program based on your experiences of the partnership program or the collaboration studies with Saga University. This item will be used as one of the most important references for selection. Statement must be typewritten in block letters. Additional sheets of paper may be attached if necessary.

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、専攻分野、研究計画をパートナーシッププログラムや共同研究の経験に基づいて、600字以上で詳細に記入すること。記入は、タイプ又はワープロによるものとし、必要な場合は別紙に追加してもよい)

1. Field of study (専攻分野)

2. Study Program in detail . (研究計画;詳細に記入すること。)

3. Describe the experience of the partnership program and/or collaboration studies with the professors of Saga University in detail. (佐賀大学の教授とのパートナーシッププログラムや共同研究の経験を詳細に記入すること。)

健康診断書

CERTIFICATE OF HEALTH (to be completed by examining physician)

日本語又は英語により明瞭に記載すること。
Please fill out (PRINT/TYPER) in Japanese or English.

氏名 Name: _____, _____, _____
Family name, First name Middle name
男 Male 生年月日 Date of Birth: _____ 年齢 Age: _____
女 Female

1. 身体検査
Physical Examinations

- (1) 身長 Height _____ cm 体重 Weight _____ kg
- (2) 血圧 Blood pressure _____ mm/Hg ~ _____ mm/Hg 血液型 Blood Type

A B O	RH + -
-------	--------

 脈拍 Pulse 整 regular 不整 irregular
- (3) 視力 Eyesight: (R) _____ (L) _____ (R) _____ (L) _____
裸眼 without glasses 矯正 with glasses or contact lenses
- (4) 聴力 Hearing: 正常 normal 低下 impaired 言語 speech: 正常 normal 低下 impaired

2. 申請者の胸部について、聴診と X 線検査の結果を記入してください。X 線検査の日付も記入すること。(6 ヶ月以上前の検査は無効。)
Please describe the results of physical and X-ray examinations of applicant's chest X-ray (X-ray taken more than 6 months prior to the certification is NOT valid).



肺 lung: 正常 normal 異常 impaired 心臓 Cardiomegaly: 正常 normal 異常 impaired
 ←Date _____ Film No. _____
 ↓
 異常がある場合
 心電図 Electrocardiograph: 正常 normal 異常 impaired

Describe the condition of applicant's lung.

- 3. 現在治療中の病気 Disease Treated at Present Yes (Disease: _____) No
- 4. 既往症 Past history: Please indicate with + or - and fill in the date of recovery
 Tuberculosis..... (. . .) Malaria..... (. . .) Other communicable disease..... (. . .)
 Epilepsy..... (. . .) Kidney Disease..... (. . .) Heart Diseases..... (. . .)
 Diabetes..... (. . .) Drug Allergy..... (. . .) Psychosis..... (. . .)
 Functional Disorder in extremities..... (. . .)

5. 検査 Laboratory tests
 検尿 Urinalysis: glucose (), protein (), occult blood()
 赤沈 ESR: _____ mm/Hr, WBC count: _____ /cmm 貧血
 Hemoglobin: _____ gm/dl, GPT: _____ anemia

6. 診断医の印象を述べて下さい。
Please describe your impression.

7. 志願者の既往歴、診察・検査の結果から判断して、現在の健康の状況は十分に留学に耐えうるものと思えますか?
In view of the applicant's history and the above findings, is it your observation his/her health status is adequate to pursue studies in Japan? Yes no

日付 Date: _____ 署名 Signature: _____

医師氏名 Physician's Name in Print: _____

検査施設名 Office/Institution: _____

所在地 Address: _____

RECOMMENDATION AND CERTIFICATION

By the Head of Applicant's University or Institute

TO: President of Saga University

This is to recommend Mr./Ms. _____

as a candidate for a Scholarship Winner in your University.

Mr./Ms. _____

**I certify that Mr./Ms. _____ will enter
your university in October 2017 if he/she is awarded the Saga University Scholarship.**

Date: _____

Recommender's name: _____
in Roman block letters: _____

Signature: _____

Title _____

Institution: _____
(or Company) _____

Present Address: _____
