

## Center for Low-Temperature Plasma Sciences, Nagoya University

### Joint Usage/Joint Research Call for Proposals (*general, plasma bio*) for the year 2025

#### 1. Purpose of joint use/research and public recruitment campaign

This center has been certified as a joint use/research center by the Ministry of Education, Culture, Sports, Science and Technology and is engaged in collaborative research with other institutions. Through organic collaboration, we will develop the science of "low-temperature plasma science" and create the world's highest level of future science and technology. We are developing Nanoprocess technology using low-temperature plasma, advanced semiconductor integrated circuits, and new fuel cell and storage battery functions, including electronic devices such as power electronics. The most important science that plays the lifeline of Japan's manufacturing is applied research areas such as material synthesis. It is a technical field, and the world's highest level of research is being promoted in Japan. In recent years, the application of low-temperature plasma technology to health care, agriculture, and fisheries industries has been actively progressing, and the measurement of active species generated by plasma and the elucidation of the reaction mechanisms that occur on their surfaces and in living organisms is paramount. We are also collaborating with the Plasma Bio Consortium project. Furthermore, in 2023, we started a collaboration between this center and the Gifu University Plasma Applied Research Center.

As a plan, we aim to build a network-type base that connects multiple bases with domestic universities, with this center at the core. We also aim to develop it into an international joint usage/research base. As part of these center activities, this call for applications will seek to obtain knowledge broadly related to low-temperature plasma, promote industry-academia collaboration based on science and technology, and systematize academic knowledge and establish it as a new academic field. We are inviting applications for joint use and joint research related to low-temperature plasma science, including a wide range of areas.

We will be inviting applications from the public in conjunction with the Plasma Bio Consortium project, and the research fields for which we invite applications will be divided into the following two categories.

- Project of Plasma Bio Consortium: (Plasma Bio)
- Projects other than Plasma Bio Consortium: (General)

#### \*Joint usage/joint research

Research teams, including faculty members of this center and faculty members or researchers affiliated with organizations other than this center (refer to "2. Qualified applicants for research teams"), will collaborate using facilities, equipment, data, etc. of this center.

#### 2. Eligible applicants

Principal Investigator: A person who falls under any of the following.

- ① Teachers at national, public, or private universities, researchers at research institutions, or equivalent researchers
- ② Other persons deemed particularly appropriate by the Center Director

Co-researcher: A person who falls under any of the following.

- ① Teachers at national, public, or private universities, researchers at research institutions, or equivalent researchers
- ② Technical staff and graduate students of national, public, and private universities
- ③ Any other person deemed particularly suitable by the Center Director

Remarks:

Our university and our center actively promote gender equality. We are also promoting the use and participation of young researchers, researchers of foreign nationalities, and affiliated with overseas institutions.

### 3. Research period

The research period will be from the adoption date until the end of February 2026.

### 4. How to apply

- ① The same researcher can only apply for one project (proposal) as a research representative. Please refrain from submitting multiple applications with similar research themes from the same laboratory. Additionally, when applying as a new project, please confirm that it is not similar to completed or ongoing projects.
- ② “Faculty in charge of center/department name” should include the person who supports coordination of equipment usage, budget management, etc.

Please list only one faculty member at this center who will be participating.

- ③ If you wish to engage in joint use or joint research, the principal investigator should discuss the joint use or joint research topic, research content, expenses, etc., thoroughly with the faculty member in charge at this center in advance. The expenses subsidized by the Center for joint use and joint research are as follows.

- Upper limit on application amount

- Research field (plasma bio): Up to 250,000 yen per year per project
- Research field (general): Up to 250,000 yen per year per project

However, suppose you have published (or accepted) a co-authored paper with a Center faculty member through joint research with the Center within one year before the application deadline. In that case, the upper limit of the application amount will be increased by 100,000 yen, and the amount will be as follows.

- Research field (plasma bio): Up to 350,000 yen per year per project (if there are co-authored papers)
- Research field (general): Up to 350,000 yen per year per project (if there are co-authored papers)
- Expenses that can be applied for
  - Travel expenses required to carry out joint use and joint research (Travel expenses for attending conferences should be less than 1/2 of the application amount.)
  - Society participation fee for international conferences (ISPlasma/IC-PLANTS) (special measures)
  - Expenses for purchasing consumables (excluding stationery items not directly required for joint

use/joint research) (please consult with the instructor in charge)

- Equipment usage fee (The equipment at this center can be used free of charge (exempt from usage fees, so please fill in the information when using paid equipment other than this center)

(Reference) Paid equipment

Microfabrication platform equipment group (<http://nanofab.engg.nagoya-u.ac.jp>)

- ④ When conducting joint use and joint research, you can use the facilities of this center (see the attached document "List of main facilities"). If you wish to use this facility, please discuss it with the instructor in charge of this center in advance.
- ⑤ To apply for joint use/research, please send the attached "Nagoya University Low-Temperature Plasma Science Research Center Joint Usage/Joint Research Application Form" (Attachment Form 1) in MS Excel format. Please submit the form by email as follows.

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Send to: [contact@plasma.engg.nagoya-u.ac.jp](mailto:contact@plasma.engg.nagoya-u.ac.jp)

Cc: [clps\\_kyoukyou@g.thers.ac.jp](mailto:clps_kyoukyou@g.thers.ac.jp)

Message Title: 2025FY Joint Research Application · · · Please set the Message title exactly same as this title

Name of attached file: (FORM 1 ) Joint Research Application Form2025\_XXXX .xlsx

· · · Please include the applicant's name in the XXXX part of file name

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- ⑥ Graduate students participating in joint use and joint research are requested to enroll in student education and research accident and disability insurance.

## 5. Application deadline

Friday, January 31, 2025

## 6. Evaluation process

- ① The decision to accept joint use/research will be made by the center director after deliberation by the joint use/research committee.
- ② During the review, the Joint Usage/Joint Research Committee may ask the principal investigator for explanations as necessary.
- ③ The principal investigator will be contacted regarding the review results after April 2024. Please note that selected joint use/joint research projects will be posted on the website (name of joint use/joint research project, name of principal investigator, institution affiliated with principal investigator).

## 7. Joint use/joint research report

The submitted joint use/research reports will be published on the Center's website.

In addition, for selected joint use/research projects, plans and research results will be presented at research meetings sponsored by this center.

- ① Please submit the “Nagoya University Low-Temperature Plasma Science Research Center Joint Usage/Joint Research Report” (Attachment Forms 2-1, 2-2 hereinafter referred to as “Research Report”) by the deadline (see ④) in “11. Please submit it as an MS Word document to "Contact Information."
- ② Attachment Form 2-1 should be 1 page of A4 size, and Attachment Form 2-2 should be 2 pages of A4 size, including figures and tables.
- ③ If you wish to present a paper (including an oral presentation) on the results of joint use/research, please include a note in the acknowledgments column of the paper stating that the results are based on joint use/research with this center. For reference, here is an example sentence:
  - This work was carried out by the joint usage/research program of the Center for Low-temperature Plasma Sciences, Nagoya University.
  - This research was conducted as a joint use/research project at the Nagoya University Low-Temperature Plasma Science Research Center. Also, please submit the electronic version of the published paper by email to "11. Where to submit/inquiries." (If you do not have the electronic version, please send a printed copy or one copy).
- ④ The deadline for submitting research reports is Monday, March 2, 2026.
- ⑤ Please note that if a research report is not submitted, applications for the following year will not be accepted.

### **8. Handling of intellectual property rights arising from joint use and joint research**

The Nagoya University Joint Research Regulations will apply mutatis mutandis to handling intellectual property rights arising from joint use and joint research.

Academic Research and Industry-Academia-Government Collaboration Promotion Headquarters Home Page:  
<http://www.aip.nagoya-u.ac.jp/industry/joint/conjunction/index.html>

### **9. Accommodation**

Those requiring accommodation for joint use or research can use the university's accommodation facilities. In that case, please get in touch with the faculty member in charge at this center or the office.

### **10. Others**

The results of joint use and joint research will be presented at the International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials / International Conference on Plasma-, which is held near Nagoya every March and is an international conference that this center is deeply involved in managing. Nano Technology & Science (ISPlasma/IC-PLANTS)” and is recommended.

**11. Where to submit/inquiry**

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Tokai National Higher Education and Research System, Nagoya University  
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