

FACULTY POSITION
JAPAN ADVANCED INSTITUTE OF
SCIENCE AND TECHNOLOGY (JAIST)

Japan Advanced Institute of Science and Technology (JAIST), the first specialized independent national graduate university in Japan, with the goal of contributing actively to the global society, invites applications from outstanding individuals for a faculty position in the Sustainable Innovation Research Area, GRADUATE SCHOOL OF ADVANCED SCIENCE AND TECHNOLOGY. We are seeking a new faculty member who is active in both research and education, and takes sincere interest in guiding students to success.

The Mission of JAIST

JAIST endeavors to foster leaders capable of contributing to the making of a future world by creation of science and technology, through its most advanced education and research in an ideal academic environment.

The Goals of JAIST

JAIST develops leaders in society or industry who hold credible expertise in the frontier science and technology, broad perspectives, high level of autonomy and communication ability, through its systematic advanced graduate education.

JAIST, to contribute to societies with research outcomes, creates a center of excellence for advancement of researches for solving problems of our world and society and develops new fields through a variety of basic researches.

JAIST fosters active global human resources by promoting faculty and student exchanges with leading institutes overseas and globalizing its education and research.

1. Position Title:

Assistant Professor or Senior Lecturer

Applicants who have obtained a doctoral degree as of starting date (April 1, 2025) are eligible for either of the positions as follows:

Assistant Professor: Have obtained a doctoral degree within five years before the starting date (on or after April 2, 2020).

Senior Lecturer: Have obtained a doctoral degree over five years before the starting date (on or before April 1, 2020).

2. Job Description:

The successful candidate for the position is expected to:

(For Assistant Professor position)

- Conduct active research in the field of Semiconductor engineering, thin-film formation technology, and energy-related materials and devices mainly on silicon solar cells in close cooperation with the relevant faculty member, Professor OHDAIRA Keisuke (<https://www.jaist.ac.jp/ms/labs/ohdaira/en>) ;
- Instruct and advise students for their laboratory work in both Master's and Doctoral

Programs in close cooperation with the relevant faculty member, Professor OHDAIRA Keisuke; and

- Give introductory lectures of Materials Science courses in cooperation with other faculty members.

(For Senior Lecturer position)

- Conduct active research and education in the field of Semiconductor engineering, thin-film formation technology, and energy-related materials and devices mainly on silicon solar cells in cooperation with the relevant faculty member, Professor OHDAIRA Keisuke (<https://www.jaist.ac.jp/ms/labs/ohdaira/en>) ;
- Give lectures of Materials Science courses;
- Supervise and instruct students in laboratory work in master's programs;
- Supervise the laboratory work of sub-theme for the students of other laboratories;
- Render the university practical services including helping recruit excellent students, taking on committee work, and so on;
- Willingly assist their laboratory students in finding suitable career positions after graduation;
- Contribute to the society.

Please refer to the following list about “Desired profile for each faculty position in JAIST” and “Responsibility and Duties of Faculty Members”:

<https://www.jaist.ac.jp/top/data/jinzai-e.pdf>

3. Qualifications:

The successful candidate is expected to:

- Possess a doctoral degree in a related field by the time of appointment;
- Excel in and be enthusiastic about education and guidance for graduate students in accordance with the Mission and Goals of JAIST;
- Have a proven record of expertise in conducting research in the field of Semiconductor engineering, thin-film formation technology, and energy-related materials and devices mainly on silicon solar cells;
- Be capable of undertaking domestic and international research initiatives in competitive areas of advanced research and/or in basic research;
- Promote joint research projects through collaborations with other researchers; and
- Be capable of giving lectures and supervising students in English (Fluency in Japanese is appreciated but not mandatory). Possess the ability to communicate globally in English and/or Japanese.

Foreign and/or female applicants are encouraged to apply for the position at JAIST. JAIST evaluates applicants on the basis of equal opportunity and diversity in the selection of new faculty members. The applications of female and foreigners are encouraged.

JAIST has supportive measures for balancing work and childcare.

<https://www.jaist.ac.jp/english/top/employment/wlb.html>

4. Terms and Conditions of Employment:

(1) Working Hours and Holidays

- Discretionary Labor System for Professional Work: 7 hours 45 minutes per day
- Holidays: Saturdays and Sundays, National Holidays, JAIST Foundation Day, Winter Break (from December 29 to January 3) and Summer Closure Days
- You may be requested to work on some holidays for lecture, university information sessions, and so on. Holiday work is compensated with a substitute day off.

(2) Salary and Other Allowances

The annual salary system will be applied.

Positions		Basic Salary	Achievement-based Additional Salary
Professor	III	JPY10,560,000	• The amount decided in consideration for the annual evaluation of achievements or the total income of the university including entire overhead expenses (Achievement-based allowance is linked to the amount of the university's annual income including total overhead expenses. The tentative scale of the maximum amount of this allowance is from JPY300,000 to JPY625,000 depending upon positions.) • Additional allowance may be provided depending upon each faculty member's achievement in contributing to the overhead expenses.
	II	JPY9,960,000	
	I	JPY9,600,000	
Associate Professor	JPY8,160,000		
Senior Lecturer	JPY7,440,000		
Assistant Professor	JPY6,000,000		

※All the figures are yearly amount.

Basic salary for professor type I applies to a professor newly hired by JAIST.

After the employment, depending on the evaluation of achievements, the basic salary for professor type II or III may apply.

Various allowances will also be provided. The allowances consist of the retirement allowance, the dependent allowance, the housing allowance, the commuting allowance, the unaccompanied duty allowance, the overtime allowance, the holiday work allowance (paid in the equivalent scale for national government employees) and the admissions special work allowance.

(3) Social Insurances

Taking out the MEXT Mutual Aid Association (Health insurance and pension), worker's accident insurance, and employment insurance.

5. Starting Date:

April 1, 2025

6. Term of Employment:

(Case of Assistant Professor)

Five years

- Possible to be reviewed during the appointment term for reappointment (for three additional years) as an assistant professor.
- When certain conditions are fulfilled, possible to be reviewed during the appointment term for promotion to Senior Lecturer (for five years).

(Case of Senior Lecturer)

Five years (Fixed)

7. Probation:

Six months from starting date of employment

8. Application Documents (Submit the documents as one set of file using PDF or Word file. Only for Item [4], use Excel file):

[1] Curriculum Vitae with the candidate's photograph**1. Name**

Write your name in the order of last [family] name, first [given] name and middle name.

2. Nationality**3. Date of birth****4. Contact address, E-mail & Phone Number****5. Education background**

Start with the graduation date of high school or its equivalent and write the date of graduation of every school you have attended thereafter. Specify for each school whether you graduated, quit, or completed the course work but not graduation thesis or dissertation.

Include special course and non-degree graduate program, if any, in this Item. If you were a research student, a special student or an auditor at a school, mention it in Item [1]-7.

6. Academic Degree

List your academic degree in Item [1]- 5 with the date, the name of the graduate school and the title of the dissertation.

7. Occupation

(1) Write all of your work experience, occupation and position in each employment.

Describe the period of your service. (For example, "from April, 2014 to March, 2018".)

(2) If you have had a period without employment, mention it in this Item.

(3) Under your current occupation, write "to present".

(4) Write teaching experience at a university with the name of school and department.

8. Specialized Fields

9. Professional memberships/affiliations and activities in a community

- (1) Write names of academic organizations to which you are affiliated.
- (2) Write your contribution to academic organization or program committee of important international conferences.

10. History of Awards and Disciplinary Actions

- (1) Write commendations or professional awards from public institutions, academic organizations and publishers, or work-related disciplinary actions, such as unauthorized receipt of research funds.
- (2) If you have been disciplined in the past for sexual violence, including sexual harassment, against a student, be sure to enter the details.

※ Any false statement in the contents of the curriculum vitae may be subject to cancellation of employment or disciplinary action.

[2] Achievements in Education

State subjects or courses which you have taught, examples of methods which you have used to encourage and motivate students or subordinates, and important points which you have paid attention to in guiding their laboratory work. Describe in as much detail as possible, using data and figures when necessary.

[3] Achievements in Research

- (1) Provide a list of refereed papers published in international journal, domestic journals, and in proceedings of international conferences or symposia from newest to oldest.
- (2) Provide a list of invited talks in international conferences.
- (3) Provide a list of books or book chapters.
- (4) Choose five most important papers (or books) among those published in the past and describe their importance as science or application, novelty of the result, and international rating in 40-50 words each.
- (5) Provide a list of research funds you have received or raised such as KAKENHI (Scientific Research Fund from MEXT) and international research funds.
- (6) Provide a list of patents (application, publication, and registration).
- (7) Provide a list of collaborative research with companies. (only for Senior Lecturer position)
- (8) Others

[4] List of Achievements in Research

Using the information provided above, fill in the Excel file of the List of Achievements in Research by following the given sample.

Excel file : <https://www.jaist.ac.jp/top/data/list-achievement-research-e.xlsx>

[5] Statement of Other Activities Related to Education and Research

- (1) Describe any valuable professional contributions you may have made such as work as an editor of a professional journal; work as a program committee member of an international conference; or work for an industrial standards organization. Also describe any professional awards you may have received.
- (2) Describe the university or company practical services including helping recruit excellent students, assisting students in finding suitable career positions after graduation and so on. (only for Senior Lecturer position)

[6] Statement of Education and Research Plans in the Term of Five Years at JAIST

(For Assistant Professor position)

Describe concretely in 200-250 words your research plan by indicating the importance and novelty of the research and its value to society, and your specific plan for guiding and teaching students.

(For Senior Lecturer position)

- (1) State not only your lesson plans and specific learning targets but also your ideas about how to attract excellent students, your techniques for enhancing your students' motivation, your vision of the types of graduate students whom you would like to foster in your laboratory, your specific plans for guiding and teaching the students in your laboratory, and your thoughts on how to assist students in their job placement in 250-300 words.
- (2) Describe your research plans by indicating the importance and novelty of the research and its value to society. Describe as concretely as possible in 250-300 words.

[7] Self-Declaration Form of Applicability to a Specific Category on Security Export Control (Submit the enclosed form.)

Word file : <https://www.jaist.ac.jp/top/data/self-declaration-f-je.docx>

9. Contact information of three references:

Submit contact information of three references including names, mailing addresses, phone number and e-mail addresses.

10. Application Deadline:

September 13, 2024 (by 17:00 in Japan standard time)

11. Evaluation:

The selection will be conducted based on results and achievements in the areas of research and education and on your future plans of work at JAIST. We will take into consideration not only the number of papers, but also the contents of publications and research.

In order to select the final candidate, the selection committee will conduct interviews with the candidates selected in the initial screening. Interviews will be held in either English or Japanese to evaluate the candidates based on the abovementioned qualifications for applicants.

The evaluation of applications will be strictly unbiased and its result will be kept confidential.

12. Selection Schedule

Document screening: middle of October, 2024

Interview: November 18, 2024 or November 25, 2024

We do not cover travel and accommodation expenses related to the interview.

13. Send the application material to:

Attention to: Dean, Professor OSHIMA Yoshifumi
Graduate School of Advanced Science and Technology
Japan Advanced Institute of Science and Technology

Submit the document via e-mail. (Address for submission: ms-dean@ml.jaist.ac.jp)
“Subject” of the e-mail must be “Application document for Assistant Professor or Senior Lecturer (Sustainable Innovation Research Area)”. We will send a confirmation e-mail after receiving the document.

14. For more information, contact:

In charge of Materials Science (Graduate School Secretarial Service Department)

e-mail: ms-dean@ml.jaist.ac.jp

Tel: +81-761-51-1148

More detailed information about JAIST and Sustainable Innovation Research Area is available at:

<https://www.jaist.ac.jp/english/>

15. Recruiter:

Japan Advanced Institute of Science and Technology

16. Additional information:

Assistant professors at JAIST have some advantages.

- More time available to concentrate on research due to the absence of duties to undergraduate students including taking care of student experiments and Undergraduate Entrance Examination.
- Easy access to common research equipment that enables them to conduct research smoothly and flexibly.

We are supporting female faculty members in need of balancing work and child-rearing by providing a research assistant worker up to three years.

JAIST sets no smoking rule on campus as a measure to prevent passive smoking.