

Niigata University ‘Swing-by’ Program for Fostering Young Faculty Members

(Recruitment and Training Program for Young Faculty Members)

Call for applications for Assistant Professors in Institute of Science and Technology, Niigata University

Niigata University is implementing the "Niigata University Young Faculty Swing-by Program," a program for the collective recruitment and training of young faculty members, targeting outstanding young researchers who are active in a variety of fields in Japan and overseas. This program is designed to foster researchers who are willing to conduct cross-disciplinary research at the university while deepening their research in their respective fields of specialization.

In the Young Faculty Swing-by Program, we will recruit young faculty members across disciplines. Recruits will be selected through a first round of selection based on their expertise in their respective fields, followed by a second round of selection based on comprehensive perspectives by the executive officers. The selected faculty members will be affiliated with the academic departments, etc., according to their fields of expertise, and will concurrently serve in the Institute for Research Administration, which is in charge of promoting research at Niigata University, and will be engaged in activities to bring forth the seeds of new interdisciplinary research that can become the new flagship of Niigata University.

Research Field for Recruitment

Science communication, Medical-Criminal Law, Informational Sociology of Disaster, Food-Tech Science, Structure engineering and earthquake engineering-related (Applied mechanics, Computational mechanics), Inorganic chemistry, Nonsmooth Optimization, Life science (Department of Neurophysiology, Virology, Div of Eating Behavior–Health Interface, Tissue Regenerative Science, Clinical nursing science), Interdisciplinary Research on Brain Pathology

Number of Positions

Around 10 persons expected

As a part of this recruitment, we are recruiting faculty members in charge of the Applied Mathematics and Mathematical Statistics field.

1. Job Type

Assistant Professor (Permanent Faculty Position)

2. Expected Date of Joining

April 1, 2027

3. Affiliation

Faculty of Fundamental Sciences, Institute of Science and Technology
Selected candidate is required to carry out teaching and research in the Faculty of Fundamental Sciences, Institute of Science and Technology, and, will be also appointed to work concurrently at the Institute for Research Administration. As a general rule, you will be working as a faculty member employed in the Swing-by Program concurrently with the Institute for Research Administration for three years from the time of hiring.

4. Job Description

[Affiliation] Faculty of Science/Graduate School of Science and Technology/Graduate School of Integrated Arts and Sciences

[Job Description]

1. Research

The successful candidate is expected to conduct research in the fields of Applied Mathematics and Mathematical Statistics, with a particular focus on Nonsmooth Optimization. Research activities will include theoretical analysis, algorithm development, and practical applications of optimization problems involving nonsmoothness, nonconvexity, discontinuity, sparsity, and related structures. In collaboration with faculty members at Niigata University, including those affiliated with the Big Data Activation Research Center, the successful candidate will also contribute to the development of mathematical foundations for data analysis, machine learning, mathematical modeling, and optimization. These activities will address large-scale and high-dimensional data analysis as well as decision-making problems arising in areas such as neuroscience, food and agricultural data science, and medical and health sciences.

2. Education

The successful candidate will be responsible for teaching and supervising students in the Mathematics Program of the Department of Science, Faculty of Science; the Materials Science and Fundamental Science Program of the Natural Sciences Division, Graduate School of Modern Society and Culture; and the Mathematical Sciences Course of the Division of Mathematical and Physical Sciences, Graduate School of Science and Technology.

As Niigata University promotes the development of individuals capable of identifying problems, analyzing them, and making decisions, the successful candidate is also expected to contribute to university-wide education in Mathematics, Data Science, and Artificial Intelligence (AI) for undergraduate and graduate students across all disciplines.

*As a general rule, the candidate will participate in the 'Swing-by' Program as an adjunct faculty member of the Research Management Organization for three years.

[Research Field] Applied Mathematics and Mathematical Statistics, with a particular focus on Nonsmooth Optimization

[Remarks Column for Assistant Professor] PI(Principal Investigator)

5. Qualifications

(1) As a general rule, those who have obtained his/her PhD degree in his/her field of research within the past 10 years. (Including those who are expected to obtain his/her PhD degree by the date of appointment).

(2) Those who have a proven track record of research in the above-mentioned specialized fields and are willing to conduct cross-disciplinary and interdisciplinary research.

(3) Applicants must have published at least two papers in peer-reviewed journals indexed in the Science Citation Index (SCI).

(4) Those who understand the purpose of the Swing-by Program and are willing and able to work on it.

(5) Those who are able to live in Niigata City or its suburbs, and carry out his/her duty after being hired.

6. Terms of Employment

(1) Work Location: 8050 Ikarashi 2-no-cho, Nishi-ku, Niigata, Niigata, Japan

(2) Salary: Annual salary system based on “Regulations for New Annual Salary System for Faculties of Niigata University,” and other benefits as per the University rules and regulations

(3) Employment Type:

- Employment time : Basically, discretionary labor system for specialized work (deemed working hours: 7 hours and 45 minutes a day).

If the professional business-type recruiting labor system is not applied, a fixed working hour system will be applied, with a weekly working hours of 38 hours and 45 minutes and a daily working hours of 8:30 am to 5:15 pm (break time: 12:00 pm to 1:00 pm).

Whether a discretionary work system or a fixed working hour system is applied will be determined at the time of hiring.

- Holidays : Saturdays, Sundays, national holidays, holidays around the end of the year and the beginning of the year, etc.

(4) Health insurance: Provided by the Ministry of Education, Culture, Sports, Science and Technology Mutual Aid Association, Employment Insurance, Industrial Accident Compensation Insurance

(5) Working environment: Provision of own personal office and laboratory:

Yes (about 29m²) /

7. Support for Nurturing Young Researchers

In order to take advantage of the Swing-by Program, which is a collective recruitment system that transcends fields, we ask that you concurrently serve at the Institute for Research Administration for the first three years after your appointment and engage in the following activities

- To proactively develop networks across departments and disciplines.
- To conduct interdisciplinary exchange activities utilizing the established network and disseminate the results widely inside and outside the university.

In order to realize the above, the following activities and others are included.

- Planning and management of employer synchronization meetings and interdisciplinary exchange meetings

- At least once a year, exchange of opinions with the president and board members
- Training on teaching methods at universities

In addition, the University has the following research support systems, which we expect you to make active use of.

- Niigata University equipment sharing system
- Support for obtaining external funds such as ‘Kakenhi’
- Regular interdisciplinary exchange meetings
- Allocation of start-up research funds from the Swing-by Program
- Other training for education and research activities

8. Application Documents

Online submission in JREC-IN Portal. If you have difficulty applying online, please send the following documents by mail.

In this call, researchmap will be used to check the list of achievements, acquisition of external funding, and major publications.

- (1) Curriculum Vitae (You must paste your photograph for personal identification).

In the "Awards and Penalties" section of your resume, please provide not only awards and criminal penalties, but also any past disciplinary actions taken against students due to sexual harassment or sexual violence, and if applicable, the specific reasons that led to such actions. If there is no column for "Awards and Disciplinary Punishments," please indicate in Remarks, etc. whether or not there were any awards or disciplinary punishments and the reasons for them.

In the unlikely event that there is any misrepresentation of your career history, your employment may be cancelled or you may be subject to disciplinary action.

- (2) Outline of your current and past research activities as well as your future aspirations for education and research if hired by Niigata University, each of which should be approximately 1,500 words.
- (3) Contact information including email address of two references, who can independently provide an opinion on your academic achievements, character and conduct.

*If applying by mail, please also send

- (4) A list of research achievements (Please list up your achievements by categories, such as peer-reviewed papers, international conference papers, Books and other literary works, patents and academic awards. Please use A4 size for preparing the document).
- (5) Status of acquisition of external funding (Please indicate whether you are a principal researcher or a co-investigator).
- (6) Printouts or copies of up to three major research achievements

*You may be required to submit additional documents if necessary.

Please confirm that all the required documents are included in an envelope. Outside the envelop please specify clearly in red ink “Enclosed the application documents for ‘Swing-by’ Program for Applied Mathematics and Mathematical Statistics (Institute of Science and Technology)”, and send it to the address shown below by registered post or courier service (in a way which allows you to confirm that your application has been received by us).

*Application documents will not be returned, and handled with strict confidentiality. Your personal information obtained by Niigata University in the process of the recruitment will be properly handled based on “Act on the Protection of Personal Information”, and will not be used for any purpose other than the selection process.

9. Screening and Selection Schedule

- (1) Application Deadline : 5:00 pm, August 17, 2026. (Japan time)
- (2) First screening : Late August to early September, 2026 Screening of documents and Interview of shortlisted candidates (Onsite/online interview might be conducted).
- (3) Notification of the result of the first selection: October, 2026
- (4) Schedule for final screening: Scheduled from October to November 2026. Interview by University President and board members (Online interview might be conducted).
- (5) Notification of the result:
Applicants will be notified of the result after the selection process is over.

*All costs relating to the selection process such as travel expenses and accommodation fee must be borne by the applicant.

10. Contact Information:

For any further information, please contact us by e-mail.

- (1) Applications should be submitted to:
General Affairs Division, Institute of Science and Technology, Niigata University
Address: 8050 Ikarashi 2-no-cho, Nishi-ku, Niigata, Niigata, Japan
TEL: +81-25-262-6823
FAX: +81-25-262-7940
E-Mail: skei-shomu@adm.niigata-u.ac.jp

11. Inquiries Regarding the Content of the Work:

Please contact us by e-mail, unless otherwise the matter is urgent.

- (1) Inquiry: Prof. Syuuji YAMADA
Institute of Science and Technology, Niigata University
TEL: +81-25-262-6262
E-mail: yamada@math.sc.niigata-u.ac.jp

12. Others

*Niigata University has set up the “Center for Diversity, Equity, and Inclusion” in our campus, and is firmly committed to gender balance and supporting physically handicapped researchers (<https://diversity.nu.niigata-u.ac.jp/>).

*Niigata University is promoting hiring of faculty members who have a flexible attitude in today’s global society and to realize the globalization of our campus. We welcome applications from foreigners who can communicate with researchers and students in

English. Japanese communication skill will be an added advantage, but not an essential condition for the application.