

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

(Simultaneous Recruiting and Training System for Young Faculty Members)

Open Recruitment for Assistant Professors of Institute of Science and Technology,
Niigata University

Niigata University has established the “Niigata University ‘Swing-by’ Program for Young Faculty Members,” which provides generous support for young faculty members who are active in various fields both in Japan and overseas so that they can make a further leap forward with us.

‘Swing-by’ Program: We are aiming to grow as a researcher by training at Niigata University, like the artificial satellites can fly into space using the gravity of the earth.

In this program, we will recruit young faculty from across all disciplines all at once. After hiring, we will provide an environment which helps them conduct research in their own area of specialization as well as develop integrated research field across the existing fields. We will also provide them with support in order to assist the young faculty members in securing the necessary research funding.

This year, we will recruit and train about 18 young researchers in the following research areas. Initial screening will be conducted based on the applicant’s expertise in his/her field, followed by a second screening from a comprehensive perspective which will be conducted by our board members. After being hired, the researcher will be assigned to both a department in accordance with their field of expertise, and Institute for Research Promotion, which is responsible for fostering and supporting young researchers. Niigata University will give support to assist with your new challenges at the university.

Niigata University is committed to enhancing the diversity and inclusion of its faculty, and encouraging its female and foreign researchers to play an active role in university. We welcome proactive applications from these people.

Research Field for Recruitment

- Media History/Media Studies
- Area and Culture Studies
- Evolutionary psychology, Neuro-physiological psychology
- Legal and/or sociological aspects of bioethics
- Quantum Science (Hadron and Nuclear Theory or Condensed Matter Theory)
- Intelligent Informatics, Human Informatics, Communication and Network Engineering, Control and System Engineering
- Agricultural Systems and Engineering
- Energy Engineering, Electric and Electronic Materials
- Protistology
- Biomolecular analysis (health science oriented)

- Materials Engineering, Metallic Material Properties, Mechanics of Materials, Engineering Materials
- International Infectious Diseases (Including control measures to COVID-19)
- Big Data Science in Healthcare
- Imaging technology for the field of medicine and dentistry
- Oral Nanomedicine
- Oral Osteoimmunology
- Imaging Technology for Radiographs (Practice Clinical Imaging Technology)
- Medical Technology (Next Generation Healthcare)
- Research on advanced analysis of brain diseases

Number of Positions

About 18

As a part of this recruitment, we are recruiting faculty members in charge of Energy Engineering or, Electric and Electronic Materials.

1. Job type

One Assistant Professor (Employed without a fixed term)

2. Expected Hiring Day

As soon as possible after April 1, 2022

3. Affiliation

Institute of Science and Technology

You are required to conduct education and research in Institute of Science and Technology, and you will be also appointed to work concurrently at Institute for Research Promotion and participate in the program of fostering young faculty for three to five years after being hired, which provides you with necessary support to help your research activity.

4. Job Description

[Faculty] Faculty of Engineering/Graduate School of Science and Technology

[Job Description]

Education and research on one of the followings;

- (1) Thermal energy related materials and thermal energy processes/systems (thermal energy storage materials and systems, thermochemical catalysts and processes, thermal engineering, etc.)
- (2) Electric and electronic materials such as semiconductors, electronic devices such as solar cells and related materials, photovoltaic systems

International collaboration is strongly required in both (1) and (2) for development of Faculty of Engineering as Center of Excellence toward early realization of carbon neutral.

[Research Field]

Research fields are one of the followings;

- (1) Thermal storage materials, thermochemical catalyst, thermal energy systems, thermochemical process, thermal engineering
- (2) Electric and electronic materials, semiconductors, electronic devices, solar cells (silicon, compound semiconductors, organic, perovskite, etc.) and related materials, photovoltaic modules, photovoltaic systems

5. Qualifications

- (1) Applicants must take a doctoral degree or Ph.D. in his/her field of research within the last 10 years or will take it at the time of appointment. Female or foreign applicants taking a doctoral degree or Ph.D. more than 10 years ago are also acceptable.
- (2) 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,” etc.
- (3) Employment Type:
 - Employment time : Discretionary labor system will be applied (deemed working hours: 7 hours and 45 minutes a day)
 - Holidays : Saturdays, Sundays, national holidays, holidays around the end of the year and the beginning of the year, etc.
- (4) Health insurance: The Ministry of Education, Culture, Sports, Science and Technology Mutual Aid Association, Employment Insurance, Industrial Accident Compensation Insurance

7. Support for nurturing young researchers

After being hired, you will be provided with the following support so that you can enhance your field of expertise and take on the challenge of developing new fields beyond the existing research fields.

- (1) Providing start-up research funds. (Research funds at your affiliation will be provided separately) .
- (2) It is possible to use the university-wide equipment sharing system (including large equipment).
- (3) Training Program (support from university and URA, etc.).
 - Support for obtaining external funds such as ‘KAKENHI’
 - Participating regularly in cross-disciplinary exchange meetings
 - Organization of a group of researchers hired at the same time/Participation in meetings of the group
 - Attending training courses on educational methods at the university
 - Giving lectures at places such as seminars by using his/her career and specialized fields.
 - Others such as attending training courses necessary for education and research activities

8. Application Documents (one copy each, A4 size, optional format)

- (1) A curriculum vitae with a photograph of the applicant's face, including name, date of birth, gender, postal address, telephone number, e-mail address, details of doctoral degree, rewards/punishments, academic background, and professional career.
- (2) A list of academic publications: information on peer-reviewed journal papers (with SCI impact factors), books and book chapters, other publications (specify clearly whether peer-reviewed or not), patents, and list of international conference presentations (specify if it is an invited talk). Sort the publications from oldest to newest.
- (3) Reprints or copies of significant peer-reviewed journal papers (no more than 5 papers).
- (4) Summary of the research achievements and the future plan for research and education (within two A4 pages).
- (5) If the candidate has teaching experience, please provide a list of lecture names, levels, and time given. Also provide the number of students supervised for under-graduate and post-graduate thesis and their research topics.
- (6) If the candidate has experience for collaboration with industry, regional cooperation, or international collaboration, please provide a list of those collaborations.
- (7) A list of scientific research funds/grants awarded. Types of funding and funding agency names, research topics, specific roles (e.g., principal investigator or co-investigator), and periods of the funding are required.
- (8) A list of awards received. Name of the award, title, name of the awardee, and date of the award should be included in the list. Also a list of activities in academic societies. Special notes are also included.
- (9) Two reference persons to whom we may contact. A list of his/her name, affiliation, telephone number and e-mail address should be given.

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

Applications can be submitted by post or via the JREC-IN Portal.

In case of sending by post, please put all the required documents in an envelope, write down "Enclosed the application documents for 'Swing-by' program for Energy Engineering, Electric and Electronic Materials" in red, and send it to the address shown below in "10" by registered mail or courier service (in a way which allows you to confirm that your application have 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 Held by Independent Administrative Corporation, etc.", and will not be used for any purpose other than the selection process.

9. Selection Schedule

- (1) Application Deadline : Must arrive no later than 5:00 pm, September 17, 2021 (JST).
- (2) First selection : Late in September to early in November, 2021 Screening of documents, Interview (Remote interview may be conducted).
- (3) Notification of the result of the first selection: November, 2021.
- (4) Second selection : November~December, 2021 Interview by board members

(Remote interview may be conducted).

(5) Notification of the result of the second selection:

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:

Contact by e-mail is strongly recommended.

General Affairs Division, Institute of Science and Technology,
Niigata University

Address: 8050, Ikarashi 2-no-cho, Nishi-ku, Niigata 950-2181,
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:

Contact by e-mail is strongly recommended.

Inquiry: Faculty of Engineering, Niigata University

(a) Energy Engineering

Professor, Tatsuya Kodama

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(b) Electric and Electronic Materials

Professor, Atsushi Masuda

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12. Others

*Niigata University has set up the Office for Equality and Diversity in our campus, and is firmly committed to supporting the female researchers (<http://www.niigata-u.ac.jp/geo/>).

*Niigata University is promoting hiring faculty members who have a flexible attitude in today's global society to realize the globalization of our campus. We welcome applications from those who can communicate with researchers in Japanese and English, and students whose mother tongue varies in different languages.