

## Open faculty positions for Nagoya University

Institute of Materials and Systems for Sustainability at Nagoya University invites applications for a Designated Associate Professor position in the Materials Science and Engineering Division.

As a research institute of "Collaborative Research Center for Materials and Systems for Innovative Energy Saving" by the Ministry of Education, Culture, Sports, Science and Technology (MEXT), our Institute is promoting a wide range of research related to the development of energy-saving technologies. In addition, the Institute is leading a collaborative research project among six research institutes of six universities, and is engaged in development and research on devices, measurements, materials, and systems. In order to strongly promote these hub activities and wide-area collaborative research, Division of Materials Research of the Institute conducts research on physical properties, materials processing, microstructure/structure control, evaluation technology, simulation, etc., related to new materials and novel materials, and also promotes applied research to link developed materials to device design and device development. The division also promotes applied research to link the developed materials to device design and device realization. In addition to issues such as efficient use of resources and energy by materials in existing technologies, the division also promotes research on advanced materials and nanomaterials useful for new energy systems and energy-saving devices in the future, and conducts research on materials creation from a long-term perspective.

To realize a sustainable, recycling-oriented society, it is necessary to develop highly functional materials, energy-saving materials, and novel nano-scale materials that contribute to solving environmental and energy problems. There is a particular need to realize a process for creating energy materials with new concepts of conversion functions. In this call, we are seeking researchers who can contribute to the creation of an energy-creating and energy-saving society in the future by pursuing the scientific principles in the research fields related to energy conversion utilizing various magnetic materials and spin functions, as well as the creation of energy materials with high conversion efficiency, high economic efficiency, and excellent durability. We also seek individuals who can develop new energy harvesting technologies by utilizing innovative materials and devices. In this research area, we seek individuals who can conduct world-leading research on their own, and through this, actively promote joint research with universities and public institutions inside and outside of the Institute and the University, as well as technology transfer and joint development with companies. We also hope that the successful candidate will be actively involved in our interdisciplinary and international joint research project for the creation of life innovation materials, which is being promoted by our institute.

Positions: 1 Designated Associate Professor

#### Affiliation

Division of Materials Research, Institute of Materials and Systems for Sustainability

#### Full-time

Fixed-term

Salary: Annual salary system (annual salary is determined in accordance with the University's regulations, taking into consideration experience, ability, etc. Year-end and diligent service allowance and retirement allowance are not provided.)

Social Insurance : MEXT mutual union , unemployment insurance and occupational injury insurance

Type of work: Discretionary work system

Holidays: Saturdays, Sundays, national holidays, year-end and New Year holidays (December 29-January 3)

Leave: Annual paid vacation, sick leave, special leave (summer vacation, etc.)

#### Term of Office

The employment contract is on an annual basis, renewable upon review. The maximum length of employment is until March 31, 2027.

(The final employment age is March 31 of the year in which the employee reaches 65 years of age.)

#### Work Location

Institute of Materials and Systems for Sustainability, Nagoya University

(Furo-cho, Chikusa-ku, Nagoya, Aichi, Japan)

#### Qualifications

Applicants must have a doctoral degree.

The applicant's expertise should be consistent with the research area for which the position is being advertised.

Applicants should be able to conduct joint research on both internal and external projects while focusing on their own area of expertise.

#### Date of Arrival

Appointment August 1, 2023 or later, at the earliest possible date

#### Documents to be submitted

- (1) Curriculum vitae (free format, photo attached, contact e-mail address)
- (2) List of research achievements (categorize the achievements into refereed original papers (total number of citations and h-index should be listed), review articles, review commentaries, books, patents, awards, invited lectures, research grants received (divided into representative and subcontractor categories), etc., underline the applicant's name.
- (3) Reprints of up to 5 major papers (Mark with an asterisk (\*) in the list of accomplishments.
- (4) Summary of research to date (maximum of 3 sheets of A4 paper in any format)
- (5) Titles of research projects and research plans after assuming the position.
- (6) Name, affiliation, and contact information of one person whose opinion may be requested.

#### Application Deadline

Applications must arrive no later than 5:00 p.m. on Wednesday, May 31, 2023.

#### Application Method

Please send all submitted documents in one PDF file as an attachment to the following e-mail address with the subject line "Open faculty positions in the Materials Science and Engineering Division (Applicant's name)". Please be sure to confirm receipt of your application by e-mail (to be sent within 3 days of receipt). To: mizuguchi.masaki\_at\_material.nagoya-u.ac.jp

(Please change "\_at\_" to "@")

We will conduct an interview after screening of the application documents. We will not provide transportation expenses for the interview.

#### Contact

Nagoya University, Institute of Materials and Systems for Sustainability, Materials Creation Division,  
Masaki Mizuguchi

mizuguchi.masaki\_at\_material.nagoya-u.ac.jp

(Please change "\_at\_" to "@")

Phone/Fax 052-789-3353

Address: Furo-cho, Chikusa-ku, Nagoya, Aichi 464-8603, Japan

For more information about the Institute, please refer to the website <http://www.imass.nagoya-u.ac.jp>.

#### Others

Information provided in the application process will be used only for the purpose of selection.

Nagoya University will actively recruit women if they are recognized as equal in terms of performance (including research achievements, educational achievements, social contributions, and character).

In November 2021, with the clarification of the scope of control of "deemed exports" under the Foreign Exchange and Foreign Trade Act ("FEFTA"), a portion of the provision of confidential information must comply with FEFTA. Technology provided by universities and research institutions to faculty and staff is FEFTA is subject to control. As a result of this change, faculty applications will also be subject to FEFTA controls. When applying for this solicitation, you will be required to submit an Applicable Specific Category Determination Form in accordance with the Applicable Specific Category Determination Flowchart. Please download the form below and submit it.

<https://nuss.nagoya-u.ac.jp/s/bLFocRofmoj83zp>

In addition, faculty members are required to submit a "Confirmation Form" at the time of employment.