

Number of positions and Job title: One position open for a professor

Starting date: September 1, 2024, or later

Employment status: Full time

Term of office: Tenure position

Division: Solid State Electronics, Department of Electronic Engineering, Graduate School of Engineering, Tohoku University

Main subjects in charge:

[Graduate School] Doctoral thesis Research in Electronic Engineering, Advanced Seminar on Electronic Engineering, Advanced Material Science and Engineering, Advanced Electronic Material Science and System Engineering, Master's Thesis Research in Electronic Engineering, Seminar on Material Science and Engineering

[Undergraduate School] Introduction to Electrical, Information and Physics Engineering, Laboratory, Electronic Engineering Seminar

Field of Research and Education:

In an advanced information network society, quantum electronic devices that are capable of high-speed operation at low power consumption are essential to cope with fast processing of an enormous amount of information, and the establishment of fundamental technologies to realize such devices is urgently needed. The mission of the Division of Solid State Electronics is to conduct education and research activities to create novel quantum functional materials including low-dimensional materials beyond the concepts of conventional solid-state electronic materials, and to develop innovative devices based on their quantum effects.

Required qualifications and conditions:

Candidates must have a doctoral degree upon arrival at the post and distinguished achievement in the above-mentioned specialized field.

Compensation:

(1) Salary system: Based on the University's employment regulations and in accordance with experience. In addition, transportation, housing, and dependent allowances may be provided depending on conditions.

(2) Work hours: As a basis, starting time (8:30 a.m.) to ending time (5:15 p.m.), but left up to the discretion of each employee.

(3) Holidays: Saturday, Sunday, and holidays prescribed by the National Holyday Act, the days from 29th December to 3rd January

(4) Insurance: Admission into the Mutual Aid Association of MEXT, Unemployment Insurance, Worker's Compensation Insurance

Application materials:

- (1) Curriculum Vitae (with a photo attached)
- (2) List of research achievements
 - i) List of publications (peer-reviewed research papers, proceedings of international conferences, reviews/commentaries, books, etc.)
 - ii) List of patents
 - iii) List of research grants/fundings obtained (classify those obtained as a principal investigator and those obtained as a co-investigator)
 - iv) List of awards, invited lectures, etc.
 - v) List of educational achievements (classes/courses taught, supervision of research/thesis, etc.)
 - vi) Activities in academic and non-academic societies/communities
- (3) Reprints of the five most important research papers
- (4) Summary of research activities (should be around 1000 words)
- (5) Aspirations for research and education (should be around 1000 words)
- (6) Names and contact information of two persons who can act as referees

Prepare (3) in five separate PDF files. All other materials should be joined, if possible, into a single PDF file.

The information provided will be used only for the purpose of this selection.

Application deadline: November 30, 2023

Destination:

Send all the application materials in PDF files to the following address per E-mail. In case the file size exceeds 10 MB, please contact us in advance so that we can specify the location to upload the files to. The receipt of the application materials will be confirmed within the next few days. In case you receive no response, please send an inquiry.

Professor Eiji Higurashi

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Contact:

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Remarks:

- We may ask applicants to make a presentation during the selection process.
- Tohoku University promotes activities to increase Diversity, Equity, and Inclusion (DEI) and encourages people of varied talents from all backgrounds to apply for positions at the university.

Tohoku University's website about the DEI Declaration is here:

<http://tumug.tohoku.ac.jp/dei/>

- Pursuant to Article 8 of the Act on Securing, Etc. of Equal Opportunity and Treatment between Men and Women in Employment, Tohoku University shall, as a measure for increasing the presence of women among the academic staff, prioritize the hiring of women deemed qualified for each job opening, based on impartial evaluation.
- Tohoku University has published 'Tohoku University - Live as Who You Are - Guidelines for Gender and Sexual Diversity' to provide explanations and details of how those at the university should respond with respect to diverse sexuality. The purpose of the guidelines is to create an environment in which all students, faculty, and staff respect diverse sexuality in their academic, research, and professional activities.

Please see the Center for Diversity, Equity, and Inclusion, Tohoku University website:

http://tumug.tohoku.ac.jp/tu_guideline_rev2-2/

- Tohoku University has the largest on-campus childcare system of all Japanese national universities.

This network comprises three nurseries: Kawauchi Keyaki Nursery school (capacity: 22) and Aobayama Midori Nursery school (116), both open to all university employees, as well as Hoshinoko Nursery school (120), which is open to employees working at Tohoku University Hospital. In addition, Tohoku University Hospital runs a childcare room for mildly ill and convalescent children which is available to all university employees.

- See the following website for information on these and other programs that Tohoku University runs to assist work-life balance, to support researchers, and to advance gender equality, including measures to promote childcare leave among male employees.

Center for Diversity, Equity, and Inclusion, Tohoku University website:

<http://www.tumug.tohoku.ac.jp/>

Human Resources and Planning Department website:

<https://c.bureau.tohoku.ac.jp/jinji-top/external/a-4-kosodate/>