

Assistant Professor (Three-year fixed-term contract)
(Nano Life Science Institute, Kanazawa University)

Institution

Kanazawa University

URL of institution or department

<http://nanolsi.kanazawa-u.ac.jp/en/>

Department

Nano Life Science Institute (NanoLSI)

Institution type

National university

Content of job information

Nano Life Science Institute (WPI-NanoLSI) at Kanazawa University was launched in October 2017, with a support of World Premier International Research Center Initiative (WPI) program by MEXT, Japan. At NanoLSI, we will combine the world's most advanced technologies in bio-scanning probe microscopy (SPM) and supramolecular chemistry to develop novel nanoprobe techniques that allow us to directly image, analyze, and manipulate nanodynamics of proteins, metabolites, and nucleic acids both on the surface of and inside the cell. In addition, through the use of innovative nanoprobe techniques combined with other advanced analytical methods, we aim to achieve fundamental understandings of the nano-level mechanisms underlying basic cellular functions (e.g., cell differentiation/proliferation, stemness, signal transduction, genome dynamics, etc.) and their cancer specific abnormalities. To this end, we will perform detailed comparisons between nanodynamics inside normal and cancer cells. Based on the developed technologies and knowledge acquired through such research works, we will establish a new research field termed "nanoprobe life science," which aims to achieve nano-level understandings of various life phenomena including cancer using advanced nanoprobe technologies.

We are looking for an excellent researcher who can work on the following research subjects as an "Assistant Professor" at NanoLSI.

1. Development of novel nanoprobe technology "Nanoendoscopy" to visualize nanoscale structures and dynamics inside of a live cell by expanding the capability of our world-leading Atomic Force Microscopy (AFM) technologies at NanoLSI.
2. Development of methods for fabricating a special nanoprobe for nanoendoscopy experiments by using focused ion beam - scanning electron microscopy (FIB-SEM) system.
3. Nanoscale investigations on the mechanisms of basic cellular functions and diseases by advanced bio-SPM technologies.

[Address of work location and other information]

Nano Life Science Institute, Kanazawa University,
Kakuma-machi, Kanazawa, Ishikawa 920-1192, Japan

Number of Position: One

Starting date: August 1, 2020 or as early as possible if later.

Research field	1	Area	Interdisciplinary science and engineering
		Discipline	Nano/ Micro science
	2	Area	Biology
		Discipline	Biological Science
	3	Area	Interdisciplinary science and engineering
		Discipline	Applied physics

Job type Assistant Professor level

Employment status

Full-time (Nontenured)

Qualifications

Applicants must satisfy all the following requirements:

- 1) Ability to conduct research activities in English
- 2) Experience of scanning probe microscopy (SPM) research is desirable. At least, the assistant professor should be able to actively work on the development of SPM technology.
- 3) Experience of cell biology research is desirable. At least, the assistant professor should be able to actively work on basic cell biology studies by SPM technologies.
- 4) Experience of scanning electron microscopy and focus ion beam experiments is desirable but not mandatory.
- 5) Doctoral degree (including equivalent degrees such as a PhD from overseas universities) has been conferred or will be conferred when he/she arrives at the post.

Compensation [Details of salary, working hours, holiday, period of employment and insurance, accommodation, etc.]

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[Period of employment]

Three-year fixed-term contract

Note: There is a possibility of the contract being renewed after the expiration of the employment period.

Negotiation is possible on employment start date.

[Start-up research funds]

We will provide million yen in the first year for research funding.

[Working Hours]

Working hours are determined according to the Discretionary Labor System for Professional Work (7 hours and 45 minutes per day)

[Salary]

Basic pay, 4,200,000 yen (Annualization conversion)

Special allowance, around 1,320,000 yen (Annualization conversion)

Salary will be fluctuated by performance and evaluation after adoption.

[Insurance]

According to the rules of Kanazawa University.

<http://www.kanazawa-u.ac.jp/university/administration/regulation/rules> (in Japanese)

Application period

August 31 , 2020 Deadline for receipt (Evaluation will be performed upon receipt of each application and, if an appropriate candidate is found, this call may be closed in about a month after the offering has started).

Application/selection/notification of result/contact details

[Application Documents]

1. CV (including research achievements such as publications, presentations, awards and research grants)
2. Proposal of research at NanoLSI
3. Outline of past research activities
4. Offprints of five major publications

Email : nanolsi-jobs@adm.kanazawa-u.ac.jp

If you have a recommender, a letter of recommendation should be sent separately to the following e-mail address.

Email : nanolsi-jobs@adm.kanazawa-u.ac.jp

- Please send the application documents by e-mail or post.
- If you send your application via email: we cannot receive emails larger than 5 MB, please use an uploader if the size of your email exceeds 5 MB. Please write "Application for Faculty Position (contact person: Prof. Takeshi Fukuma)" in the title of the e-mail.

- Please ensure that you provide your contact information including your address, phone number, and e-mail address in your application documents, write "Application for Faculty Position (contact person: Prof. Takeshi Fukuma)" in red on the envelope, and send your documents by registered mail to the following address:

The Administrative Department, Nano Life Science Institute
Kakuma-machi, Kanazawa, Ishikawa 920-1192, Japan
Email: nanolsi-jobs@adm.kanazawa-u.ac.jp

- Please note that all application documents will not be returned to you.

[Selection process (selection method and hiring decision), notification of result]

Applicant screening and interview

※We do not cover the travel expenses associated with the interview.

[Contact details (department, official position, name, e-mail address, and phone number of the responsible person)] * Important

Professor Takeshi Fukuma

WPI Nano Life Science Institute, Kanazawa University (WPI-NanoLSI)

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Email: fukuma@staff.kanazawa-u.ac.jp

Additional information

1) The website below gives information about employment regulation.

<https://nanolsi.kanazawa-u.ac.jp/en/staff/rules/>

2) Kanazawa University actively promotes a gender equality in the workplace. For details, see the following URL: <https://cdl.w3.kanazawa-u.ac.jp/en/>.

3) At NanoLSI, many female researchers are actively working on research activities. For details, see the following URL: <https://nanolsi.kanazawa-u.ac.jp/en/research/diversity/>.