At the NanoLSI, we will combine the world’s most advanced technologies in bio-scanning probe microscopy (SPM) and supramolecular chemistry to develop novel “nanoendoscopic 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 a assistant professor to perform the following research work as staff who plays a central role in the area of integration between the nanometrology and life science.

Open Position: Assistant Professor (Three-year fixed-term contract)

Main Duties: At the Nano Life Science Institute, the "Assistant Professor" plays a central role in promoting integrated research in the fields of nanometrology and life science.

1. Preparation of cells and intracellular organelles to be targeted for high-speed AFM imaging
2. Expression and purification of proteins
3. High-speed SPM observation of intracellular organelles and cells

[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: May 1, 2018 or as early as possible if later.

<table>
<thead>
<tr>
<th>Research field</th>
<th>Area</th>
<th>Biological sciences</th>
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<tbody>
<tr>
<td>Discipline</td>
<td>All biological science</td>
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<table>
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<tr>
<th>Employment status</th>
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<tr>
<td>Full-time (Nontenured)</td>
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<tr>
<th>Qualifications</th>
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<tr>
<td>Applicants must satisfy all the following requirements:</td>
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<tr>
<td>1) Having a Doctorate degree and research experience in either Biophysics, Biochemistry, Biology, Cell Biology, Molecular Biology, or Pharmacology.</td>
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<td>2) Being self-motivated and yet cooperative in a team environment.</td>
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<td>3) Experience of SPM imaging including AFM and scanning ion conductance microscopy (SICM) imaging is NOT required.</td>
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<table>
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<tr>
<th>Details of salary, working hours, holiday, period of employment and insurance, accommodation, etc.</th>
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<tbody>
<tr>
<td>Assistant Professor (Three-year fixed-term contract)</td>
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<tr>
<td>Period of employment</td>
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<tr>
<td>Three-year fixed-term contract</td>
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</tbody>
</table>
## Application Period

- **Application/selection/notification of result/contact details**
  - **2018/3/20** Deadline for receipt

## Application Documents

1. Curriculum vitae with a recent photograph of the face, describing present address, phone number, e-mail address, academic career, research career, professional career, and other relevant information.
2. List of research activities, including original scientific papers, book chapters, other publications, presentations in scientific meetings, awards, and other relevant activities.
3. Offprints of main published papers (Maximum number of papers is five, and hard copies are accepted.)
4. List of research support (Time period, name of grant, title of education/research, and amount of money should be included.)
5. Outline of past research and teaching (two sheets in free format)
6. A description of the applicant's research interests, achievements, and future research plan (two sheets in free format)
7. In case of a recommender, a recommendation letter should be separately sent to the following e-mail address.
   - Email: nanolsi-jobs2@adm.kanazawa-u.ac.jp

As we cannot receive emails larger than 5 MB, please use the uploader etc. if the size of your email exceeds 5 MB. Please write "Application for Faculty Position (Prof.Ando)" 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 (Prof.Ando)" in red on the envelope, and send your documents by registered mail.

Please note that application documents will not be returned to applicants.

In case of mail, please send all the documents by registered mail to the following address:

Research Promotion Affairs Division, Research Promotion Department
Kakuma-machi, Kanazawa, Ishikawa 920-1192, Japan
Email: nanolsi-jobs2@adm.kanazawa-u.ac.jp

## Compensation

- **Salary payments** will be made on an annual basis in an amount determined in accordance with the rules of Kanazawa University.

- **Insurance** According to the rules of Kanazawa University.

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

- **Working Hours** Working hours are determined according to the Discretionary Labor System for Professional Work (7 hours and 45 minutes per day)
- **Salary**
  - 4,200,000 yen~6,180,000 yen (Annualization conversion)

Salary payments will be made on an annual basis in an amount determined in accordance with the rules of Kanazawa University.

**Additional information**

1) The website below gives information about employment regulation.

2) Kanazawa University supports applicants from female scholars and promotes the co-activities of male and female scholars.
   http://cdl.w3.kanazawa-u.ac.jp/index.html (in Japanese)

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

Prof. Toshio Ando

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