

Job opening of Assistant Professor positions (Condensed Matter Physics Experiment)

1. Position title:
Two Assistant Professors (Assistant Prof. A, and Assistant Prof. B)
2. Affiliation:
Department of Physics, Faculty of Pure and Applied Sciences, University of Tsukuba, Japan
3. Research field:
[Assistant Prof. A] Experimental study on low-temperature mesoscopic electron transport,
[Assistant Prof. B] Experimental study on optical properties of materials
4. Contents of work:
[Assistant Prof. A] We are looking for a candidate of an assistant professor, who carries out experimental study on mesoscopic electron transport and mesoscopic superconductivity in atomic layer materials, in collaboration with Prof. Akinobu Kanda. The candidate is expected to have experience of microfabrication and low-temperature electron transport measurement. The candidate will also take part in education of undergraduate and graduate students.
[Assistant Prof. B] In cooperation with Associate Professor Michio Ikezawa, the candidate will conduct experimental research in accordance with the laboratory's research direction. Specifically, it aims to clarify novel optical properties of semiconductor nanostructures, luminescence centers in semiconductors, and atomic-layer materials by single spectroscopy and time-resolved spectroscopy, and to develop them into related fields such as quantum information. The candidate will also be in charge of physics related classes, including student experiments, and will guide students in their research. It is desirable that the candidate has the technique and knowledge of the laser spectroscopy or the sample preparation experience by the chemical technique.
5. Starting date:
As soon as the decision is made.
6. Terms of office:
[Assistant Prof. A] Three years
[Assistant Prof. B] Until March 31st, 2022
7. Required qualification:
An applicant should have a Ph.D., or be expected to obtain the degree before the

employment starts.

8. Application method

The following application materials have to be posted by registered mail or uploaded using the JREC-IN Portal “Web application” function (<https://jrecin.jst.go.jp/>). In the latter case, the application materials should be combined in a single pdf file.

9. Application materials:

- 1) Curriculum Vitae (with your recent photograph)
- 2) List of research activities including peer-reviewed papers, peer-reviewed proceedings, oral presentations at international conferences, competitive research funds (representative), awards, and so on.
- 3) Reprints of three major papers
- 4) Summary of past research activities (A4, one page)
- 5) Future research plan and policy for education (A4, one page)
- 6) A list of two professional references with complete contact information.

10. Application deadline

Application materials must arrive no later than March 30, 2020 (JST).

11. Mailing address:

Yasuhiro Hatsugai, Chair, Division of Physics, Faculty of Pure and Applied Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8571, Japan.

[Assistant Prof. A] Indicate “Low-temperature Mesoscopic Physics Application” in RED on the face of the envelope, and post by REGISTERED MAIL.

[Assistant Prof. B] Indicate “Optical Condensed Matter Physics Application” in RED on the face of the envelope, and post by REGISTERED MAIL.

* For online application using the JREC-IN Portal “Web application” function, upload a pdf file including all application materials in the web page for “Assistant Professor (Low-temperature mesoscopic electron transport, Department of Physics, University of Tsukuba)” or “Assistant Professor (Experimental study on optical properties of materials, Department of Physics, University of Tsukuba)” in the JREC-IN Portal.

12. Inquiries:

[Assistant Prof. A] Prof. Akinobu Kanda,

Email: [kanda.akinobu.gm\[at\]u.tsukuba.ac.jp](mailto:kanda.akinobu.gm@u.tsukuba.ac.jp) ([at] should be replaced with @.)

[Assistant Prof. B] Associate Professor Michio Ikezawa,

TEL: +81-29-853-5908, Email: [ikezawa.michio.fu\[at\]u.tsukuba.ac.jp](mailto:ikezawa.michio.fu@u.tsukuba.ac.jp)

([at] should be replaced with @.)

* Application materials will not be returned. The personal information provided in the submitted documents will be used solely for the recruitment and not for any other purposes, and will be properly discarded after the selection process.