

**Open Postdoctoral Researcher Positions
in Computational Condensed Matter Theory**
at Department of Applied Physics, The University of Tokyo,
or Institute for Science and Engineering, Waseda University
in Tokyo, Japan

[Position summary]

Applications are invited for postdoctoral researcher positions at Department of Applied Physics, the University of Tokyo, or Research Institute for Science and Engineering, Waseda University. The postdoctoral researchers will conduct research on **mechanism of strongly correlated superconductivity and/or nature of strongly-correlated topological materials by taking advantage of large-scale parallel computers flexibly with *ab-initio* electronic structure approaches and/or data-driven approaches based on spectroscopic data provided by collaborations with experimentalists.**

[Location of institution]

Hongo campus of the University of Tokyo or Nishi-Waseda campus of Waseda University, Tokyo, Japan

[Term]

One year with possibility of extension after review up to March 2023

[Expected start date]

From June 1st, 2020 or later

[Required qualification]

Ph. D. in a relevant field such as condensed matter theory, and computational physics

In this project, ample large-scale parallel computer resource is available. Tight collaborations with expert experimentalists on strongly correlated electron systems for the spectroscopic methods (such as angle-resolved

photoemission, scanning tunnel microscope, and resonant inelastic X-ray scattering) are possible if necessary.

Applicants who are strongly motivated to work on one or several of the above diverse physical subjects or development of numerical methodologies for strongly correlated electron systems are highly welcome.

[Required application materials]

1. Curriculum vitae with photo and email address
2. Summary of research achievement (around two pages, letter size)
3. Publication list and list of invited talks
4. Name(s), affiliation(s), and email address(es) of one or more person(s) who may provide a reference letter
5. Research interests and plan for strongly correlated electron systems or numerical methodology (around one page, letter size)
6. Copies of main published papers up to three

[Application details]

The open position will be closed when it is filled. All applicants are encouraged to apply in the earliest convenience. Successful applicants will be contacted for a job interview after a screening process.

Submit the application with all the required materials via email. The materials should be converted into pdf format (hopefully in a single pdf file) whose size should be less than 10MB in total, in which the materials should be arranged in order from 1. to 5. Papers may be attached as separate pdf files.

Inquiry and application to:

yamaji@ap.t.u-tokyo.ac.jp (Youhei Yamaji, Department of Applied Physics, University of Tokyo)

or

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