

The University of Electro-Communications

Job Openings: Associate Professor or Tenure Track Assistant Professor

(Energy Management, Energy Mix)

The University of Electro-Communications (UEC) invites applications for Associate Professor or Tenure Track Assistant Professors in the areas including but not limited to Mathematical Engineering, Information Science, System Engineering, Environmental Energy Engineering, and City Planning, etc.

The goal of i-Powered Energy System Research Center (i-PERC) is to establish "Fusion of information and communication technology and energy technology in distributed energy systems," and aim at a game changing role for a low-carbon society. In order to grow into a global research center, our core activities are to establish economic efficiency for various energies, and the best mix management that can be flexibly applied to regions with various environments and characteristics based on mathematical science models. We are recruiting professionals who aim to contribute to these directions.

1. Title and number of position

Associate Professor or Assistant Professor, one position

2. Affiliation after the employment

Info-powered Energy System Research Center (i-PERC)

(serving concurrently in Department of Computer and Network Engineering)

3. Fields of specialty

A researcher position is officially open for applications. Candidates who pioneer the mathematical science modeling field for best energy mix management with economic efficiency and flexible regional compatibility, which is indispensable for integrating and systemizing energy-related technologies and connecting them to applications and social implementation, are encouraged to apply. Specializing in mathematical science and management science as a solution research, applicants are expected to be in charge of research promotion and education for the realization of various forms of smart cities with a view to the overall optimization of energy systems. Specifically, we, i-PERC, are proceeding with research in the following directions, and we hope the applicants who can contribute to them.

- Research on independent power supply systems as autonomous distributed systems for the realization of the main power generation of renewable energy

- Research on Internet-type power systems using autonomous distributed systems
- Research on demand and device monitoring and optimal control in the microgrid
- Research on smart city resilience by optimizing distributed resources for various power generation and storage

We are looking for applications from people with the following specialties. However, it is not limited to these: Mathematical Engineering, Information Science, System Engineering, Environmental Energy Engineering, City Planning, etc.

4. Responsible subjects

In addition to their own research, applicants are expected in on-campus and off-campus projects promoted by i-PERC in cooperation with other faculty members in the center. In addition, applicants are expected to be actively involved in a wide range of activities in industry-academia collaboration such as various on-campus projects related to energy, joint research with companies, and education for working adults.

In addition, applicants will be in charge of the subjects of the Department of Information and Network Engineering, Graduate School of Information Science and Engineering, and guiding the research activities of the students. There is the possibility of teaching courses in the Night School Program.

5. Eligibility for application

- 1) Applicants must hold a doctorate degree or equivalent qualification.
- 2) Applicants must have a good track record of the above-mentioned fields of specialty and can contribute to the progress of the fields through activities in education and research.
- 3) Applicants are expected to have sufficient Japanese language ability to conduct university affairs.

6. Start of employment

April 1, 2022 (or later at the earliest possible date.)

7. Term of employment and employment status

- 1) Term of employment:
 - . Associate Professor position: permanent full-time (until the mandatory retirement age)
 - . Or Assistant Professor position: UEC Tenure Track

In case of Assistant Professor position, please Note^{*1}: The employment period (tenure-track period) is 5 years from the employment date. The successful applicant must be recognized for their outstanding academic capabilities after undergoing an interim

evaluation in the third year and a tenure qualification review in the fifth year, to be granted tenure status (permanent employment) and promotion to associate professor.

Note^{*2}: Please refer to the following URL for general information on the tenure track program at UEC.

https://www.uec.ac.jp/eng/research/activity/uec_tenure_track/index.html

- 2) Employment status: Full-time research and education employee
- 3) Place of employment: The University of Electro-Communications (1-5-1Chofugaoka, Chofu, Tokyo)
- 4) Work hours: Discretionary labor system
Based on standard work hours of 7 hours and 45minutes during 8:30am-5:15pm, an individual employee may decide how his/her schedule will fit into workday.
- 5) Holidays: Saturday, Sunday, holidays prescribed by the National Holiday Act, New Year's holiday, and the days designated by UEC.
However, if an employee teaches a night course of the Fundamental Programs for Advanced Engineering that is offered on Saturday, the day off should be taken on one of the weekdays instead. For securing the number of credit hours, an employee may need to work on public holidays.
- 6) Paid holidays: Annual paid holidays, special leave, childcare leave, and nursing care leave
- 7) Insurances: Health insurance/pension (the Monbukagakusho Mutual-Aid Association insurance), employment insurance, and worker's compensation insurance

8. Salary

- 1) Salary
Annual Salary System (Based on rules of the University of Electro-Communications)
- 2) Research fund
Research funding of associate professor or assistant professor level will be provided in accordance with the University's regulations.

9. Documents for submission

- 1) Application form: (Photo, Resume, List of research achievements)
Please download and fill in the Application Form.
http://www.uec.ac.jp/about/advertisement/pdf/oubo_sinseisyo_e.pdf (PDF file)
http://www.uec.ac.jp/about/advertisement/date/oubo_sinseisyo_e.doc (MS-word file)
- 2) Research papers (up to 5 papers: duplicates are acceptable)
- 3) Outline of research achievements: up to 2 pages on an A4 sheet
- 4) Outline of the research plan in i-PERC: up to 2 pages on an A4 sheet

- 5) Outline of aspirations regarding your contribution to i-PERC up to 1 page of A4 sheet
- 6) Teaching experience and your goals in education: up to 2 pages on an A4 sheet
- 7) The names, affiliations, contacts (including e-mail address), and relation of two references.
Applicant for assistant professor position: two references, at least one from Japan, are required. Applicant for associate professor position, three references at least one from Japan and one from outside Japan.

10. Instructions for submission

Application documents (1) to (7) must be submitted through the following online site. When submitting online, the document (3), (4), (5) and (6) are required to be uploaded as one PDF file.

Online submission site (Please select “Energy Management/Energy Mix”.):
<https://www.inf.uec.ac.jp/kobo/>

11. Application deadline

Application documents must arrive by 17:00 September 30, 2021 (Japan Standard Time)

12. Selection procedure

If an applicant passes the screening of application documents, the applicant will be requested to come to the UEC for an interview. Please note that transportation for the interview will be at applicant’s own expense.

If an applicant who passes the screening of application documents lives outside of Japan, the interview may be held on the internet by using Skype, etc.

13. Contact

Prof. Kenji Sawada,
Info-Powered Energy System Research Center,
The University of Electro-Communications
E-Mail: knj.sawada@uec.ac.jp

14. Others

- All faculty members of UEC belong to the Academic Institute, through which individual faculty members are assigned to specific departments or centers.
- Based on an aim to engage in the target value that is described in the 5th Science and Technology Basic Plan in fiscal year 2016–2020 (Cabinet office, Government of Japan, 2016), the government is acting to achieve a ten percent increase in the number of young

researchers under 40 years of age and hopes to increase this number by over thirty percent in the overall higher educations for the future. UEC is recruiting well-qualified young researchers in order to foster them and accelerate their dynamic research activities. For more information, please refer to the following URL: <https://www8.cao.go.jp/cstp/kihonkeikaku/index5.html>

- Under the principle of The Basic Law for a Gender-Equal Society, UEC is aiming to increase the number of female faculty members through an effort to provide working environment that is friendly to female employees, such as Work-Life Balance Support and Support for Research Career Advancement. Female candidates are strongly encouraged to apply. For more information, please refer to the following URL: <http://www.ge.uec.ac.jp/>