

The University of Electro-Communications
Job Openings: Teaching and Research Staff
(Advanced Sensing System)

1. Title and number of position

Associate professor, One position

2. Affiliation after the employment

Measurement and Control Systems Program

Department of Mechanical Engineering and Intelligent Systems

Graduate School of Informatics and Engineering

3. Fields of specialty

The field of advance sensing system related to the following region(s):

- (1) Advanced sensing device, including nano sensor, touch display, touch interface, CMOS sensor, LSI sensor, optical sensor, image sensor, sound/vibration sensor, and intelligent sensor.
- (2) Fundamental and applied researches about sensing method and signal processing, including remote sensing, non-invasive sensing, visualization technology, nano-sensing, high-speed image sensing, high-density sensing, electromagnetic wave sensing, sensor fusion, sensor network, antenna technology, radar technology, real time signal processing, compressed sensing, information extraction, data interpolation/signal reconstruction, image processing, sound signal processing, reverse problem analysis, and machine learning application.
- (3) Innovative sensing technology based on a novel sensing principle.
- (4) Social implementation of the above technologies, including biomedical measurement, brain imaging, environmental measurement, diagnosis/surveillance of infrastructure, intelligent transport system and agriculture measurement.

4. Responsible subjects

The successful applicant is requested to take charge of course lectures and experiments, for graduate and undergraduate students. (Please refer to the following URL for the details (Japanese only).)

<http://www.uec.ac.jp/campus/academic/syllabus.html>

<https://www.uec.ac.jp/education/undergraduate/curriculum.html>

<https://www.uec.ac.jp/education/undergraduate/cluster2/curriculum.html>

5. Eligibility for application

- 1) Applicants must possess a doctorate degree or equivalent qualification.
- 2) Those who 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 capable of conducting innovative researches independently.
- 4) Applicants are expected to be capable of guiding students in Japanese.

6. Start of employment

October 1st, 2021 (or later at the earliest possible date)

7. Term of employment and Employment status

- 1) Term of employment: Employment is full time (until the mandatory retirement age)
- 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 for professional work
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 work day.
- 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

Annual salary based on the UEC Employee's Salary Regulation

9. Documents for Submission

- 1) Application form: (Photo, Resume, List of research achievements)
Please download the Application Form from
http://www.uec.ac.jp/about/advertisement/pdf/oubo_sinseisyo_e.pdf (PDF file), or
http://www.uec.ac.jp/about/advertisement/date/oubo_sinseisyo_e.doc (MS-word file)
- 2) Copies of research papers (up to 5 papers)
- 3) Outline of past research achievements: up to 2 pages of A4 sheet.
- 4) Future research plan in UEC: up to 2 pages of A4 sheet.
Relevance to the fields of specialty in the article 3 above should be clearly indicated.
- 5) Teaching experience and statement of resolution to carry out university education:
up to 2 pages of A4 sheet.
- 6) Names, affiliations, contacts (including e-mail address) and relation of 2 references in Japan and 1 reference from outside of Japan.

10. Address for submission of application documents

Use the Online submission system of JREC-IN Portal web application system at
<https://jrecin.jst.go.jp/seek/SeekTop?ln=1>
You are required to register on this site to apply this post. Please find this job post by keyword search. You will be able to check the status and details of a web application. Please see the following site for the details.
https://jrecin.jst.go.jp/seek/html/help_detail/katsuyou/loginmae/user01-2.html (only in Japanese)

11. Application Deadline

The deadline for submitting the application is June 14th, 2021 (Japan Standard Time)

12. Selection Procedure

The oral interview will be conducted for only those applicants who have passed their document screening. The details of the interview is to be determined. Please note that applicants are responsible for the expenses incurred for an interview.

13. Contact

Please send an email to the following address:
E-Mail: advsense2021@mi.uec.ac.jp

14. Others

- All faculty members of UEC belong to the Academic Institute where 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 promoting the proactive recruitment of young researchers with the goal of fostering those young researchers capable of playing an active role in various field. For more information, please refer to the following URL:

<https://www8.cao.go.jp/cstp/kihonkeikaku/index5.html>

- To further promote gender equality and diversity measures, UEC endeavors to increase the number of female faculty members through an effort to ensure women-friendly working environment such as activities in consideration of work-life balance and supports for Research Career Advancement. For further information, please refer to the following link:.

<http://www.ge.uec.ac.jp/en/>

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