

Faculty Position in the Institute of Laser Engineering, The University of Osaka

Outline	The Quadruple Matrix Center (QMC), an affiliated center of the Institute of Laser Engineering, The University of Osaka, promotes four forms of collaboration in an integrated manner—academic, international, facility-based, and industry-academia cooperation—building on Japan’s leading laser technologies. Through interdisciplinary integration, the Center aims to create new knowledge and realize innovation. The QMC invites applications for an Assistant Professor position to advance research and development of next-generation semiconductor lasers. The successful candidate will work in collaboration with the Photonic Device Optics Laboratory (Hamaguchi Lab), Faculty of Engineering Sciences, Kyushu University, and will be affiliated with the Institute of Laser Engineering–Kyushu University Collaborative Office located in that laboratory. We seek a candidate capable of developing innovative semiconductor lasers and expanding their applications to interdisciplinary fields, including laser fusion energy. Institute of Laser Engineering, The University of Osaka https://www.ile.osaka-u.ac.jp/en/
1. Position	Assistant Professor
2. Number of Positions	1
3. Affiliation	Kyushu University Collaboration Office of The Quadruple Matrix Center, Institute of Laser Engineering, The University of Osaka
4. Work Location	Chikushi Campus, Kyushu University (6-1 Kasuga-koen, Kasuga, Fukuoka Japan) and Suita Campus, The University of Osaka (2-6 Yamadaoka Suita Osaka, Japan)
5. Specialized Field	Semiconductor lasers, Semiconductor light-emitting devices, Semiconductor device engineering, Semiconductor manufacturing technologies and processes
6. Responsibilities	The successful candidate will conduct education, fundamental and applied research, as well as technology development, in one or more of the following areas: • Education and Research on structural design and performance enhancement of semiconductor lasers and light-emitting devices • Education and Research on epitaxial growth and epitaxial structure design • Education and Research on semiconductor device fabrication processes, including wafer processing and microfabrication • Education and Research on packaging and integration of semiconductor lasers and light-emitting devices • Education and Research on the optical and electrical characteristics and reliability evaluation of semiconductor lasers and light-emitting devices
7. Qualifications	Applicants must meet either criterion (A) or (B) below. (A) Applicants with research experience in semiconductor lasers, light-emitting devices, or related fields • Have research experience in semiconductor lasers, semiconductor light-emitting devices such as LEDs, or related semiconductor materials and devices. • Hold a doctoral degree or be expected to obtain one during the term of appointment. (B) Applicants with experience in semiconductor-device development in industry or other organizations • Have practical experience in one or more of semiconductor-device design, manufacturing processes, packaging, or evaluation. • Have the motivation to apply their prior experience to research and development of semiconductor lasers. • Hold a master's degree.

	Common requirement • Be able to conduct research and development collaboratively with diverse members from universities, research institutions, companies, and other organizations. • Be motivated to contribute to student education and research supervision.
8. Starting Date	May 1 st , 2027 (or as soon as possible thereafter)
9. Term of Employment	Five years from the starting date. (Three years from the date of employment if not holding a doctoral degree) *Following completion of the term, the contract may be extended subject to continuity of work and performance evaluation. *The maximum cumulative contract term is 10 years from the starting date, based on “Regulations Pertaining to Contract Period of National University Corporation Osaka University Fixed-term Staff, etc.”
10. Probationary Period	6 months
11. Employment Type	Based on “38. Regulations Pertaining to Working Hours, Holidays and Leave for National University Corporation Osaka University Limited Term Staff” https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html *The Discretionary Labor System, Special Work Type will be applied with the applicant’s consent. (deemed working hours: 8 hours a day)
12. Salary and Benefits	Based on “47. Salary Regulations for National University Corporation Osaka University Limited Term Staff Subject to New Annual Salary System” https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html
13. Insurance	Medical insurance and employee’s pension insurance of the Federation of National Public Service Personnel Mutual Aid Associations, Employment Insurance and Industrial Accident Compensation Insurance
14. Application Documents	Applications must be written in English or Japanese and include the following. 1. A Curriculum Vitae (photo attached) *Please use the university form for educational/research positions available at the following website. https://www.osaka-u.ac.jp/en/news/employ/links 2. A list of research achievements (peer reviewed original papers, review papers, books, patents, presentations at international conferences and others) 3. Reprints of three major original papers (up to three, photocopies acceptable) 4. A list and an outline of awards and prizes 5. An outline of research and education achievements (about two A4 pages) 6. A research plan and educational aspirations (about two A4 pages) 7. List of external funds such as Grants-in-Aid for Scientific Research, etc. (specify representative or sub representative) 8. Others such as domestic and international academic activities, social activities, industry-academia-government collaboration, etc. 9. Name, affiliation, contact information, relationship of two professional references who are willing to be contacted. *Personal information in the application documents will only be used for the purpose of screening and hiring procedures, and will not be disclosed to any third party.
15. Sending Address and Contact Information	Please submit by e-mail: rezaken-syomu@office.osaka-u.ac.jp *Write “Application for Assistant Professor(QMC)” in the subject line. *All documents must be unified into one PDF file. *Take sufficient attentions to prevent file garbling. *Attach the application documents in PDF format (with full security countermeasures). Contact Person: Professor Akifumi YOGO Tel: +81-6-6879-8766 E-mail: yogo.akifumi.ile@osaka-u.ac.jp

16. Application Deadline	Must arrive no later than 12 January, 2027 (Japan Standard Time)
17. Selection Process	Document screening will be followed by interviews. Selected applicants will be notified within one month after the application deadline. *Travel and accommodation expenses necessary for interviews are to be covered by the applicant. For applicants residing overseas, the applicant may request an online interview. *Please note that unsuccessful applicants will not be contacted.
18. Additional Information	Concerning work conditions other than the above-mentioned, please refer to “36.Work Regulations for National University Corporation The University of Osaka Limited Term Staff” and/or related regulations. https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html Please note the above-mentioned work conditions are as of the day this employment offer is posted, and subject to change. In principle, there will be no changes to the affiliation, work location, or responsibilities after employment. Rules and Regulations – The University of Osaka “Deemed exports” related to security export control are based on “Regulations Pertaining to Security Export Control”. Rules and Regulations – The University of Osaka We also particularly encourage applications from female candidates. The University of Osaka is committed to promoting gender equality and providing various supports for female academic staff members. http://www.di.osaka-u.ac.jp/en_lp/ The University of Osaka is committed to creating a harassment-free environment and conducts a variety of awareness-raising and educational activities. If you have any concerns or become aware of any inappropriate behavior, remarks, or treatment, please feel free to contact our consultation office. https://www.osaka-u.ac.jp/en/campus/life/prevention_sh/prevention_sh * The University of Osaka campuses and related facilities are smoke-free, except for designated areas.
19. Recruiter	National University Corporation The University of Osaka