

Center for Quantum Information and Quantum Biology, Osaka University
Specially Appointed Assistant Professor (full-time)

Position Outline	<p>The Center for Quantum Information and Quantum Biology (QIQB) at Osaka University actively promotes interdisciplinary research across its six research domains which span Quantum Computing; Transdisciplinary Quantum Science; Quantum Information Devices; Quantum Communication and Security; Quantum Sensing; and Quantum Biology.</p> <p>This is position is a fixed term Specially Appointed Assistant Professor (full-time) employed through JST's COI-NEXT Quantum Software Research Hub. The successful candidate will hold a joint appointment in the Department of Physics in the Graduate School of Science.</p> <p>We encourage you to apply if you think you can make use of your knowledge and skills in quantum computing and if you are interested in working on a new project in the field of quantum computing.</p> <p>Position ID : TK_J01</p>
1. Position Title	Specially Appointed Assistant Professor (full-time)
2. Number of positions available	1
3. Affiliation	Center for Quantum Information and Quantum Biology, Osaka University https://qiqb.osaka-u.ac.jp/
4. Work address	Toyonaka Campus (1-2 Machikaneyama-cho, Toyonaka, Osaka, Japan)
5. Field of specialization	Physics, Engineering, Chemistry, Mathematical and Information Sciences, Computational Science, Computer Science
6. Job description	<p>We are seeking a full-time Specially Appointed Assistant Professor to conduct the following research within JST's COI-NEXT Quantum Software Research Hub (https://qsrh.jp) in collaboration with Associate Professor Nayuta Takemori from the Department of Physics, Graduate School of Science, who holds a joint appointment with QIQB.</p> <p>(1) Research and development of quantum-classical hybrid algorithms for quantum many-body systems (2) Verification of (1) by classical computer simulation (3) Verification of (1) by actual quantum computer simulation</p> <p>The successful applicant will hold a concurrent appointment in the Department of Physics in the Graduate School of Science and will be responsible for teaching and supervising the research of students in the laboratory of Associate Professor Nayuta Takemori.</p> <p>Inquiries about this position are welcome.</p>
7. Eligibility	<p>(1) Extensive knowledge of quantum physics and quantum information theory, preferably with a familiarity of both theoretical concepts and coding techniques in these areas. (2) It does not matter what your current research background is providing you have experience in a related research field and are willing and able to work on the above job description. (3) Applicants must have a doctoral degree or be expected to obtain one before commencing this position.</p>

	It is desirable that candidates have experience related to the research in (1) ~ (3) listed above in section 6 “Job description” but there are no restrictions on past research fields providing the candidate is highly motivated and can undertake their own research independently. We are looking for an individual who is flexible and who can make a significant contribution to this research group.
8. Commencement date	1 July 2024 (or as soon as possible thereafter)
9. Term of employment	Up to 3 years from the date of commencement ※ Following completion of the term, the contract may be extended up to 31 March 2029 subject to evaluation (the total contract period at the University is based on “73. Regulations Pertaining to Contract Period of National University Corporation Osaka University Fixed-term Staff, etc.”)
10. Probation	6 months
11. Working arrangements	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/publications/kitei_shugyou.html ※ The Discretionary Labor System, Special Work Type will be applied (deemed working hours: 8 hours a day)
12. Salary and benefits	Based on “48. Salary Regulations for National University Corporation Osaka University Limited Term Staff (Specially appointed Staff, etc.) Subject to Annual Salary System” https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html Remuneration: ¥4,851,900~¥6,228,900 per annum (monthly payments of one-twelfth of annual salary) *Salary will be decided according to the responsibilities assigned based on the applicant’s qualifications. Commuting allowance *Bonuses and allowances for housing, dependency, and retirement are included in the above-mentioned annual salary and will not be paid separately.
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	Application documents should be written in English or Japanese. - Curriculum vitae (any format): Include your name, current address, telephone number, e-mail address, date of birth (age), educational background (from high school onwards), degrees, employment history, awards, and academic affiliations. - Academic outputs: Original papers, commentaries/reviews, books, patents, presentations at domestic and international conferences - Three major publications - Summary of research to date (no more than 2 A4 pages) - Name, affiliation, and contact information of two referees *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. Application documents will not be returned.
15. Submitting an application	Please send your application with supporting documents to the e-mail address below. qiqb_recruit☆qiqb.osaka-u.ac.jp (please replace ☆ with @) ※ In the subject field, please put: Application for QIQB Position ID:TK_J01 Specially Appointed Assistant Professor (full-time) ※ Application documents should include full security countermeasures. < Contact person >

	Ms. OKUNO Specially Appointed Researcher, Center for Quantum Information and Quantum Biology Tel.06-6850-8431
16. Application deadline	Monday 6 May 2024 (Japan time)
17. Selection process	Document screening will be followed by interviews. Only applicants who pass the document screening stage will be invited to attend an interview. *Interviews will in principle be conducted online. Travel and accommodation fees necessary for in-person interviews are to be covered by applicants. *Please note that unsuccessful applicants will not be contacted.
18. Other	Working conditions other than those mentioned above are based on “Work Regulations for National University Corporation Osaka University Limited Term Staff” https://www.osaka-u.ac.jp/en/guide/publications/kitei_shugyou.html Please note that the above-mentioned work conditions are relevant as of the day this employment offer is posted, and are subject to change. In principle, there will be no change in the affiliation, work location, or job description once the successful candidate commences work. “Deemed exports” for security export control are governed by Regulations on Security Export Control at Osaka University https://www.osaka-u.ac.jp/kitei/reiki_honbun/u035RG00000780.html Female candidates are particularly encouraged to apply. Osaka University is committed to promoting gender equality and provides various support services to female employees https://www.di.osaka-u.ac.jp/en_lp/ ※ Osaka University campuses and its related facilities are smoke-free, except in designated areas.
19. Recruiter	National University Corporation Osaka University