大阪大学
OSAKA UNIVERSITY

Specially Appointed Researcher (Full-time) in Premium Research Institute for Human Metaverse Medicine (PRIMe), Osaka University

Outline	The Premium Research Institute for Human Metaverse Medicine (PRIMe) has been selected as a research center in the 2022 World Premier International Research Center Initiative (WPI) sponsored by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in Japan. This research institute aims at creating a new scientific field, Human Metaverse Medicine, where two academic fields, human organoid-based biomedical science, and information mathematical science, are combined to understand and provide solutions for modern diseases associated with aging. Furthermore, through collaboration with the Yachie laboratory at the University of British Columbia and other established international collaborations, the successful candidate will have the opportunity to access a world-leading research network. We are looking for one Specially Appointed Researcher (Full-Time) who can join the team led by Dr. Nozomu Yachie and Dr. Hideto Mori at PRIMe, Osaka University, Japan.
1. Position	Specially Appointed Researcher (Full-Time)
2. Number of Positions	One
3. Affiliation	Premium Research Institute for Human Metaverse Medicine (PRIMe), the University of Osaka (Advanced Metrology Group, Creative Destruction Biology)
4. Work Location	Suita Campus (2-2 Yamadaoka, Suita-City, Osaka, Japan)
5. Specialized Field	Bioinformatics, Computational Systems Biology, Mathematical Informatics, and Molecular Biology
6. Responsibilities	The Yachie Advanced Metrology Group, combining synthetic biology, CRISPR/Cas9 genome editing, and computational approaches, is leading the field of DNA event recording technology (https://yachie-lab.org/research.html?lang=EN). In this open recruitment, you will be engaged in the research project of the Japan Science and Technology Agency (JST) Strategic Creative Research Promotion Program (CREST) BioDX Project 'Automation of DNA sequence design and synthesis using conversational AI' (Representative: Hideto Mori). In this project, we will develop an AI tool with a large language model that can automatically design appropriate plasmid vectors and genetic circuit sequences through interactive dialogues with researchers, along with an automated DNA synthesis platform. Specifically, you will be involved in one of the following tasks: - Developing an AI interface that assists in planning DNA cloning experiments through conversations with users. - Exploring novel functional proteins, including genome editing proteins and others, and proposing and constructing synthetic genetic circuits using those proteins.
7. Requirements	- A Ph.D. in a field related to the aforementioned responsibilities, such as molecular biology, bioinformatics, informatics, or similar areas. (Candidates expected to obtain their degree by the 2024 academic year may be considered.) - Proficient in programming skills, particularly in Python. - Expertise and experience in developing software tools are optional but encouraged. - Expertise and experience in basic molecular cloning experiments are optional but encouraged. - Proficient communication skill in either the English or Japanese.
8. Starting Date	After August 1st, 2025 (as soon as possible thereafter)
9. Term of employment	From the starting date to March 31st, 2026 *Following completion of the term, the contract may be extended subject to continuity of work and performance evaluation (the extension limit is March 31, 2029). *The maximum cumulative contract term is based on “Regulations Pertaining to Contract Period of National University Corporation Osaka University Fixed-term Staff, etc.”

10. Probationary Period	6 months
11. Employment Form	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	Based on “48. Salary Regulations for National University Corporation Osaka University Limited Term Staff (Project Appointed Staff, etc.) Subject to Annual Salary System” https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html Remuneration: 6,423,300 JPY ~ per annum. (Monthly payments are made in one-twelfth of the annual salary) *The salary will be decided based on the responsibilities assigned based on the applicants’ qualifications and experience. *Commuting allowance is available. *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	1. A Curriculum Vitae (CV) including educational background, work experience, academic and social activities, etc., with a photo attached, (format is free) and contact details of at least two potential referees who can provide opinions for the applicant (including their name, affiliation, position, phone number, and email address). 2. A short summary of previous research and current interest (maximum of two A4 pages,) *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 send the application documents in PDF format to Dr. Hideto Mori (mori.hideto.prime@osaka-u.ac.jp) with the subject line “PRIMe Yachie group recruitment for a specially appointed researcher (full-time).” Informal inquiries are welcome and should be also addressed to him. *Please CC to ikumi-mak@office.osaka-u.ac.jp (Secretary of Yachie lab) when sending the email. *We will send back an acknowledgment email upon receiving the application. *Attach the application documents in PDF format (with appropriate security in measures in place). <Contact> Dr. Hideto Mori Creative Destruction Biology, Advanced Metrology Group, Premium Research Institute for Human Metaverse Medicine (WPI-PRIMe), Osaka University TEL: +81-6-6210-8366 e-mail: mori.hideto.prime@osaka-u.ac.jp *Please feel free to contact Dr. Hideto Mori with any questions regarding the application.
16. Application Deadline	Until the position is filled
17. Selection Process	Document screening will be followed by an interview. Selected applicants will be notified accordingly. Travel and accommodation fees necessary for interviews are to be covered by the applicant. Applicants may request an online interview.

18. Additional Information	- Concerning work conditions other than above-mentioned, please refer to “36. Work Regulations for National University Corporation Osaka University 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. “Deemed exports” related to security export control are based on “Regulations Pertaining to Security Export Control”. - Osaka University is committed to promoting gender equality and providing various support for female academic staff members: we strongly encourage applications from female candidates. https://www.di.osaka-u.ac.jp/en_lp/ - Osaka University campuses and related facilities are smoke-free, except for designated areas.
19. Recruiter	National University Corporation Osaka University