

Specially Appointed Assistant Professor (Full-time) in Premium Research Institute for Human Metaverse Medicine (PRIME), The University of Osaka

Outline	<p>The Premium Research Institute for Human Metaverse Medicine (PRIME) 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.</p> <p>We are looking for one Specially Appointed Assistant Professor (Full-Time), to join the team led by Prof. Ayako Yachie at PRIME, The University of Osaka, Japan, and to promote research in mathematical modeling, simulation, and AI/ML-based analysis of clinical and biological data, in accordance with the guidelines below.</p>
1. Position	Specially Appointed Assistant Professor (Full-Time)
2. Number of Positions	1 (One)
3. Affiliation	Premium Research Institute for Human Metaverse Medicine (PRIME), The University of Osaka (Disease Decision Science, Information and Mathematical Sciences Group)
4. Work Location	Suita Campus (2-2 Yamadaoka, Suita-City, Osaka, Japan)
5. Specialized Field	Information Science, Mathematical Science, Bioinformatics, Systems Biology, Computational Biology, or related interdisciplinary fields.
6. Responsibilities	<ul style="list-style-type: none"> • Promote research on mathematical modeling and AI/ML-based analysis for disease understanding using clinical data. Applicable methods include ordinary differential equations (ODEs), partial differential equations (PDEs), network models, agent-based models, stochastic models, and machine learning approaches. • Collaborate closely with experimental biologists, clinical researchers, and computational scientists to define biological systems, formulate hypotheses, select and construct appropriate modeling approaches, and propose experimental validation strategies, thereby leading a full modeling cycle. • Contribute to data analysis (including statistics, visualization, and AI/ML model development) as needed to advance the overall research program. • The position offers opportunities to work closely with The Systems Biology Institute (SBI) on interdisciplinary research initiatives, including the development of agentic AI systems.
7. Qualifications	<p>[Essential]</p> <ul style="list-style-type: none"> • Research experience in mathematical modeling, causal inference modeling, and/or AI/ML modeling in life science or related fields. • Ability to independently drive research from problem formulation to analysis and hypothesis validation in collaboration with experimental researchers. • Ability to actively engage in scientific discussion and communication in English in an international research environment. • Strong motivation to uncover fundamental biological principles from sparse and noisy clinical and life science data. <p>[Preferred]</p> <ul style="list-style-type: none"> • Programming experience in Python, R, Julia, C/C++, or related languages. • Ability to rapidly learn and implement state-of-the-art methods and algorithms from open-source resources (e.g., GitHub) and apply them flexibly to research problems.

8. Starting Date	On or after August 1, 2026 (or as soon as thereafter, negotiable)
9. Term of Employment	<p>From the starting date to March 31st, 2027</p> <p>*Following completion of the term, the contract may be extended subject to continuity of work and performance evaluation.</p> <p>*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.”</p>
10. Probationary Period	6 months
11. Employment Type	<p>Based on “38. Regulations Pertaining to Working Hours, Holidays and Leave for National University Corporation Osaka University Limited Term Staff”</p> <p>https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html</p> <p>*The Discretionary Labor System, Special Work Type will be applied with the applicant’s consent. (deemed working hours: 8 hours a day)</p>
12. Salary and Benefits	<p>Based on “48. Salary Regulations for National University Corporation Osaka University Limited Term Staff (Specially Appointed Staff, etc.) Subject to Annual Salary System”</p> <p>https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html</p> <p>Remuneration: 6,123,000 JPY ~ per annum. (Monthly payments are made in one-twelfth of the annual salary)</p> <p>*The salary will be decided based on the responsibilities assigned based on the applicants’ qualifications and experience.</p> <p>*Commuting allowance is available.</p> <p>*Bonuses and allowances for housing, dependents, and retirement are included in the above-mentioned annual salary and will not be paid separately.</p>
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	<p>Applications must be written in English or Japanese and include the following</p> <ol style="list-style-type: none"> 1. A Curriculum Vitae (CV) including educational background, work experience, academic and social activities, etc., with a photo attached, (format is free) 2. A list of research achievements (original papers, review papers, books, patents, presentations at domestic and international conferences) 3. An overview of your research to date, your current research interests, and your research plan and aspirations after taking up the position (maximum of one A4 page) 4. Contact details for at least two referees who can comment on the applicant, including their names, affiliations, positions/titles, phone numbers and email addresses. (You may be asked to submit letters of recommendation during the selection process.) <p>*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.</p>

15. Sending Address and Contact Information	<p>Please send the application documents in PDF format to i-prime-syomu[at]office.osaka-u.ac.jp ([at]=@) with the subject line “PRIME Ayako Yachie lab. recruitment for a Specially Appointed Assistant Professor (Full-time).”</p> <p>*Attach the application documents in PDF format (with appropriate security measures in place).</p> <p><Contact> General Affairs Section Premium Research Institute for Human Metaverse Medicine (WPI-PRIME), The University of Osaka e-mail: i-prime-syomu[at]office.osaka-u.ac.jp ([at]=@) Phone: +81-6-6210-8312</p>
16. Application Deadline	July 31, 2026 (Or until the position is filled)
17. Selection Process	Notification regarding the online interview will be sent only to applicants who pass the document screening, within two weeks of receipt of the application materials.
18. Additional Information	<p>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</p> <p>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”. Rules and Regulations – The University of Osaka</p> <p>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/</p> <p>The University of Osaka campuses and related facilities are smoke-free, except for designated areas.</p>
19. Recruiter	The University of Osaka