

**Faculty Position in Premium Research Institute for Human Metaverse Medicine  
(WPI-PRIME), Osaka University**

Outline	<p>The Premium Research Institute for Human Metaverse Medicine (WPI-PRIME) at Osaka University aims to create a new scientific field, Human Metaverse Medicine, by combining two academic disciplines: human organoid-based biomedical science and information mathematical science. This new field seeks to understand and provide solutions for chronic diseases.</p> <p>We are looking for one Specially Appointed Associate Professor (Full-Time) to join a newly established team led by Dr. Elisa Domínguez Hüttinger.</p>
1. Position	Specially Appointed Associate Professor (Full-Time)
2. Number of Positions	One
3. Affiliation	Premium Research Institute for Human Metaverse Medicine (PRIME)
4. Work Location	Suita Campus (2-2 Yamadaoka, Suita-City, Osaka, Japan)
5. Specialized Field	<p><b>Mathematical and Computational Modeling:</b></p> <ul style="list-style-type: none"> <li>- Multi-scale mathematical modeling.</li> <li>- Dynamical modeling of complex biological systems.</li> <li>- Mathematical models of regulatory networks across scales.</li> </ul> <p><b>Data Analysis and Bioinformatics:</b></p> <ul style="list-style-type: none"> <li>- Statistical analysis of clinical and experimental data.</li> <li>- Computational biology and bioinformatics.</li> </ul> <p><b>Systems-Based Approaches to Medicine:</b></p> <ul style="list-style-type: none"> <li>- Systems medicine.</li> <li>- Creating digital twins of complex epithelial tissue diseases.</li> </ul>
6. Responsibilities	<ul style="list-style-type: none"> <li>- Construction, calibration, validation, and analysis of mechanistic mathematical models of complex biological systems.</li> <li>- Bioinformatics and statistical analysis of dynamical and multi-omics data obtained from cells, organoids, and patients.</li> <li>- Planning and conducting research in collaboration with both experimental and computational PRIME labs, as well as supervising new lab members.</li> </ul>
7. Requirements	<ul style="list-style-type: none"> <li>- A PhD degree in systems biology or a closely related field.</li> <li>- Demonstrated experience in systems biology research through an excellent publication record.</li> <li>- Ability to work independently as well as collaboratively within a team.</li> <li>- Eagerness to engage in a wide range of scientific projects.</li> <li>- Strong communication skills in English, both oral and written.</li> <li>- Proficient analytical and programming skills, along with experience in mechanistic modeling of complex biological systems and a solid understanding of fundamental biology.</li> </ul>
8. Starting Date	After April 1st, 2025 (as soon as possible thereafter)
9. Term of employment	<p>From the starting date to March 31st, 2026</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 Form	<p>Based on “38. Regulations Pertaining to Working Hours, Holidays and Leave for National University Corporation Osaka University Limited Term Staff”.</p> <p><a href="https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html">https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html</a></p> <p>*The Discretionary Labor System (Special Work Type) will be applied with the applicant’s consent, with deemed working hours set at 8 hours per day</p>

12. Salary	<p>Based on “48. Salary Regulations for National University Corporation Osaka University Limited Term Staff (Specially Appointed Staff, etc.) Subject to Annual Salary System”.  <a href="https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html">https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html</a></p> <p>Remuneration: 7,713,600JPY and above per annum.  (Monthly payments are one-twelfth of the annual salary.)  *Salary will be determined based on assigned responsibilities, qualifications, and experience.  *A commuting allowance is available.  *Bonuses and allowances for housing, dependents, and retirement are included in the annual salary and will not be paid separately.</p>
13. Insurance	<p>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.</p>
14. Application Documents	<ol style="list-style-type: none"> <li>1. A Curriculum Vitae, including publication lists (original papers, review papers, books, patents, presentations at international conferences, etc.)</li> <li>2. A brief summary of past research and current interests (limited to one A4 page)</li> <li>3. Ambition for research and education after appointment as Specially Appointed Associate Professor (limited to one A4 page)</li> <li>4. Letters of recommendation (two letters) (Each letter should include referees’ names, affiliations, and positions)</li> </ol> <p>*Personal information provided in the application documents will solely 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 submit your application by e-mail to:  i-prime-syomu★office.osaka-u.ac.jp (Please replace “★” with @)  *Use the subject line “Application for Specially Appointed <u>Associate Professor</u> in Dr. DOMÍNGUEZ-HÜTTINGER’s Group.”  *Attach the application documents in PDF format, ensuring comprehensive security measures are in place.</p> <p>&lt;Contact&gt;  General Affairs Division, Premium Research Institute for  Human Metaverse Medicine (WPI-PRIMe), Osaka University  TEL: +81-6-6210-8312  e-mail: i-prime-syomu★office.osaka-u.ac.jp (Please replace “★” with @)</p>
16. Application Deadline	<p>December 25, 2024 (Japan Standard Time)* or until the position is filled</p>
17. Selection Process	<p>The selection process will begin with document screening will be followed by an interview. Only selected applicants will be notified.  Travel and accommodation expenses incurred for the interviews will be the responsibility of the applicant. Applicants may request to arrange an online interview.</p>
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.  <a href="https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html">https://www.osaka-u.ac.jp/en/guide/information/joho/kitei_shugyou.html</a></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”.</p> <p>Osaka University is committed to promoting gender equality and providing various supports for female academic staff members: we strongly encourage applications from female candidates.</p>

	<a href="http://www.di.osaka-u.ac.jp/en_lp/">http://www.di.osaka-u.ac.jp/en_lp/</a> Osaka University campuses and related facilities are smoke-free, except for designated areas.
19. Recruiter	National University Corporation Osaka University