

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

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| 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>   |

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| 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”.<br><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><br>*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   |
| 12. Salary                                  | Based on “48. Salary Regulations for National University Corporation Osaka University Limited Term Staff (Specially Appointed Staff, etc.) Subject to Annual Salary System”.<br><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><br>Remuneration: 7,713,600JPY and above per annum.<br>(Monthly payments are one-twelfth of the annual salary.)<br>*Salary will be determined based on assigned responsibilities, qualifications, and experience.<br>*A commuting allowance is available.<br>*Bonuses and allowances for housing, dependents, and retirement are included in the 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                   | <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> *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. |
| 15. Sending Address and Contact Information | Please submit your application by e-mail to:<br>i-prime-syomu★office.osaka-u.ac.jp (Please replace “★” with @)<br>*Use the subject line “Application for Specially Appointed <u>Associate Professor</u> in Dr. DOMÍNGUEZ-HÜTTINGER’s Group.”<br>*Attach the application documents in PDF format, ensuring comprehensive security measures are in place.<br><Contact><br>General Affairs Division, Premium Research Institute for Human Metaverse Medicine (WPI-PRIME), Osaka University<br>TEL: +81-6-6210-8312<br>e-mail: i-prime-syomu★office.osaka-u.ac.jp (Please replace “★” with @)  |
| 16. Application Deadline                    | December 25, 2024 (Japan Standard Time)* or until the position is filled   |
| 17. Selection Process                       | The selection process will begin with document screening will be followed by an interview. Only selected applicants will be notified.<br>Travel and accommodation expenses incurred for the interviews will be the responsibility of the applicant. Applicants may request to arrange an online interview.   |

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| <p>18. Additional Information</p> | <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.<br/> <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.<br/> In principle, there will be no changes to the affiliation, work location, or responsibilities after employment.<br/> “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.<br/> <a href="http://www.di.osaka-u.ac.jp/en_lp/">http://www.di.osaka-u.ac.jp/en_lp/</a></p> <p>Osaka University campuses and related facilities are smoke-free, except for designated areas.</p> |
| <p>19. Recruiter</p>              | <p>National University Corporation Osaka University</p>   |