



**Position Description:** The Femtosecond Spectroscopy Unit (<https://groups.oist.jp/fsu>) and the Quantum Transport and Electronic Structure Theory Unit (<https://groups.oist.jp/qtestu>) at the recently established Okinawa Institute of Science and Technology Graduate University (OIST) are seeking to recruit several highly motivated postdoctoral researchers in experiment and theory in the fields of ultrafast processes, photoexcited states and spectroscopic properties of two-dimensional (2D) van-der-Waals heterostructures.

Experimental facilities include state-of-the-art laboratories with multiple amplified, ultrafast lasers, a low-energy electron microscope (LEEM), multiple photoemission electron microscopes (PEEMs), and a cryo-free 17 T superconducting magnet for nonlinear optical measurements. First-rate shared institute facilities for material characterization and nanofabrication are also available. On the theory side, OIST is hosting its own high-performance computing cluster, consisting of 10224 compute cores and a peak computing power of about 252.7 Tflops.

Besides the theory-experimental collaboration between the units, further interaction opportunities exist with various international institutes, including Stanford, Rice University, École Normale Supérieure and Cambridge. Generous funding to present research results at international conferences is available. Candidates are expected to have a PhD in the area of experimental or theoretical condensed matter physics, or a related field. Previous experience with the study of 2D materials is considered advantageous. For the experimental positions, expertise in ultrafast spectroscopy or LEEM/PEEM is required. On the theory side, experience with ab-initio modeling and method development is crucial.

**Compensation and Benefits:** In line with the values at OIST we are committed to attract top-level researchers from across the world, ensuring a supportive, creative and productive atmosphere for them. We will try our best to accommodate personal considerations. The base annual salary will be ¥4.4M plus housing allowance up to ¥0.72M/year. The final compensation package will take into consideration the candidates' experience and background and will be competitive with international standards.

**Application Instructions:** Please submit (i) a cover letter (<1 page), stating your motivation to apply, (ii) your CV including publication list, and (iii) contact information of at least two references to [KMDani@oist.jp](mailto:KMDani@oist.jp) (experiment) or [gtestu-recruiting@oist.jp](mailto:gtestu-recruiting@oist.jp) (theory). Short listed candidates will be invited for an interview to OIST. Applications will be reviewed as received.

**About OIST:** OIST was established in November 2011 to conduct top-notch interdisciplinary research in science and technology. It is committed to being international with more than 50% of researchers coming from outside of Japan and English as the official language. With recent faculty hires from world-leading institutes, OIST represents over 50 countries and seeks to become a global hub of innovative interdisciplinary science and technology. OIST is an equal opportunity, affirmative action employer and encourages applications from women. For more information, please visit <http://www.oist.jp>.

**About Okinawa:** Okinawa is a sub-tropical island located south of mainland Japan within a three hours flight of Tokyo, Shanghai, Seoul, Taipei and Hong Kong. It offers opportunities for exciting recreational activities like water skiing, sea kayaking, scuba diving, beautiful coral reefs with one fourth of the world's coral diversity, opportunities to experience the vitality and history of the ancient Ryukyu culture as well as the energy of a modern, thriving city in downtown Naha. For more information see <http://www.okinawastory.jp/en/>.