



Multiple Postdoctoral Scholar and Staff Scientist Positions in the Electronic and Quantum Magnetism Unit, Okinawa Institute of Science and Technology, Okinawa, Japan

Beautifully situated on the island of Okinawa, the Okinawa Institute of Science and Technology Graduate University (OIST) offers unique, individualized professional experience together with a cross-disciplinary approach and an emphasis on intellectual exchange. OIST is a university with no departments but only individual research units, bringing communications easily across biological, mathematical, and physical sciences. OIST constantly invites the best brains in the world to Okinawa in an all-English environment that is strongly connected to the global academic world.

The Electronic and Quantum Magnetism Unit (<https://groups.oist.jp/eqmu>), under Associate Professor Yejun Feng, explores fundamental concepts in condensed matter physics by experimental examinations of correlated electron states and magnetism, especially through continuous tuning in the multi-dimensional pressure-magnetic field-temperature space.

Position summary: We are currently seeking three highly motivated researchers to carry out pioneering scientific research in condensed matter physics and materials science. The hiring is open to both postdoc and staff scientists with more research experience (>5 years after Ph.D.). The following areas are currently of interest:

(1) Two postdoc/staff along the optical direction. The candidate should lead the synergy of optical techniques together with a high-pressure, low-temperature sample environment, in order to explore both charge and spin evolution at pressure-driven quantum phase transitions and related quantum critical phenomena. The applicants are expected to have sound understanding and experimental experience with either of the following optical techniques: high-resolution Raman spectroscopy, pump-probe, reflectivity, higher harmonics generation, and terra-Hertz source/probe. The candidates are also expected to have close working relationship with graduate students and other research specialists and collaborators.

(2) One postdoc/staff in high-pressure science. We will hire either a postdoc or a staff scientist (>5yrs after PhD) with expertise in cubic-anvil based high pressure techniques to expand our research lab's capability in exploring quantum magnetism. The researcher should be leading the experimental studies of quantum critical behavior in various 4f/5d quantum magnets and heavy fermion systems, especially under frustrated conditions. The researcher would also participate in the lab-wide experimental effort in synergy of sample environments between high pressure, low temperature, and magnetic field, in addition to develop novel measurement techniques.

Term: Full-time, fixed-term appointment for one year with the possibility of renewal for up to a total of 3 years upon satisfactory progress.

Starting Date: around July 1st, 2017.

Application deadline: Please submit application materials (CV including the publication list and three names of reference) by email to: yejun@oist.jp (Dr. Yejun Feng) and/or yukiko-murabayashi@oist.jp (Ms. Yukiko Murabayashi). Full consideration will be given to all applications before April 10th, and will continue until all three positions are filled.

* OIST Graduate University is an equal opportunity, affirmative action educator and employer and is committed to increasing the diversity of its faculty, students and staff. The University strongly encourages women and minority candidates to apply.

* Information provided by applicants or references will be kept confidential, documents will not be returned. All applicants will be notified regarding the status of their applications.