

Postdoctoral Research Opportunity in Quantum Biophysics / Quantum Biology

Location: Institute of Quantum Biophysics, Sungkyunkwan University, Suwon, South Korea

Position Type: Fixed-Term

Application Deadline: 2025/02/28

Start Date: 2025/04/01

The Institute of Quantum Biophysics at Sungkyunkwan University (SKKU) invites applications for an exciting postdoctoral position in Quantum Biophysics. We are seeking a highly motivated and skilled researcher to join our dynamic, interdisciplinary team exploring the intersection of quantum mechanics and biological systems.

Key Responsibilities

- Design and conduct experiments utilising advanced fluorescence and absorption microscopy/spectroscopy techniques.
- Investigate photochemical processes in biological systems, including the study of reaction kinetics.
- Develop and implement innovative approaches to study quantum phenomena in biological samples.
- Collaborate with team members across disciplines and contribute to publications and presentations.

Essential Qualifications

- A Ph.D. in Biophysics, Chemistry, Physics, Engineering, or a related field, with a strong background in quantum phenomena.
- Hands-on experience in fluorescence, darkfield, absorption microscopy/spectroscopy, or plasmonic optics.
- Expertise in photochemistry and reaction kinetics.
- Experience working with biological samples, including sample preparation and analysis.
- Strong analytical, problem-solving, and communication skills.

Desirable Skills

- Familiarity with quantum computational tools and modelling.
- Experience in multidisciplinary research environments.
- Proven track record of peer-reviewed publications.

What We Offer

- Access to state-of-the-art laboratory facilities at one of the top universities in S. Korea and Harvard Medical School.
- Co-advised by Lewis M. Antill (SKKU) and Luke P. Lee (HMS).
- A vibrant research environment with opportunities for professional development.
- Collaboration with leading experts in quantum biology or biophysics and related fields internationally.

- Competitive salary and benefits package.

If you are passionate about uncovering the mysteries of quantum phenomena in biological systems and possess the expertise to make a significant contribution, we encourage you to apply.

Application Process

Please submit the following documents as a single PDF:

- A cover letter detailing your motivation and fit for this role.
- A CV highlighting your research experience and publications.
- Contact details for two academic referees.

Applications should be sent to Lewis M. Antill (lewis.antill@g.skku.edu) and Luke P. Lee (lplee@bwh.harvard.edu) with the subject line: "Postdoctoral Application: Quantum Biophysics."

We are dedicated to fostering a diverse and inclusive research community and encouraging applications from individuals of all backgrounds.

Join us in pushing the boundaries of biophysics at the quantum frontier!