



PhD and Post-Doc Positions in Quantum Biology

The Department of Applied Physics at the University of Geneva in Switzerland is one of the premier research institutions in the field of Quantum Information Science and Technology. The Quantum Technologies group, led by Prof. Hugo Zbinden and Dr Rob Thew, is inviting motivated people to apply for **open PhD and Post-Doc positions** as part of a new multidisciplinary project on Quantum Vision.

The project's focus is on understanding quantum effects in biological systems. The successful candidate will develop and exploit entangled photon pair sources and single photon detection techniques for the study of biological systems and dynamics with the goal of understanding quantum effects in biological systems, especially the vision process. The project features the participation of five research groups all based at the University of Geneva (Quantum Technologies, Biophysics, Biology, Medicine and Biochemistry). More information on the project can be found at <https://www.unige.ch/gap/quantumvision>

The **PhD** candidates must have a completed Masters degree in physics or related disciplines with excellent grades, be highly motivated, and enjoy working in an international team.

The **Post-Doctoral** position, will be a joint position between the Quantum Technologies and Biophotonics groups, both part of the Department of Applied Physics. Experience in spectroscopy or nonlinear optics and time-resolved techniques is advantageous. The successful candidate will work with 2 PhD students: one developing an entangled photon pair source and single photon detection techniques for the study of biological systems and dynamics. Another one working on the phase-sensitive control of the dynamics of molecules involved in the vision process using pulse-shaping techniques.

We offer a highly attractive research environment and salaries according to Swiss standards. Candidates should send an e-mail with a CV and motivation letter to either [Hugo Zbinden](#) or [Rob Thew](#). Please also include 2-3 people who may be contacted to provide recommendation letters.

The **Quantum Technologies** (<http://www.unige.ch/gap/qtech/>) group is part of the Department of Physics Department at the University of Geneva, which enjoys a high reputation internationally and is excellently equipped for performing world-class research. We have active collaborations with the international research community, and locally are home to a network of research groups also working on quantum memories and repeaters, macroscopic quantum systems, non-locality and entanglement, quantum thermodynamics, quantum optics theory, and biophotonics.