UNIVERSITÉ DE GENÈVE

FACULTÉ DES SCIENCES
SECTION DE PHYSIQUE
GAP - BIOPHOTONICS

University of Geneva
20, rue de l'Ecole de Medecine
CH-1211 Genève 4

Researcher position on Quantum Spectroscopy and Sensing

Quantum spectroscopy using non-classical light is emerging as a new disruptive technology for improving sensing and microscopy beyond classical limits. The present project takes advantage of the unique capabilities of entangled photon pairs for measuring greenhouse and trace gases at high sensitivity and selectivity in the atmosphere, and for improving non-linear microscopy of biological samples at low incident intensities to avoid damage in fragile organs.

Your job

Lead the experiments with the associated PhD and Master students. Analyze the data, and contribute to the writing of scientific articles. Present the results at international conferences.

Your profile

The required skills to apply to this position consist in a deep expertise (PhD or equivalent) in quantum optics, including entangled photon pair sources and single photon detection schemes.

We offer

The brutto salary ranges approximately from 70000 CHF/year to 100000 CHF/year depending on the experience of the candidate. Social charges amount typically 23%. Duration : 1 year, renewable.

Starting date : as soon as possible

jean-pierre.wolf@unige.ch http://www.unige.ch/gap/biophotonics/