University of Warsaw, Faculty of Physics is seeking to strengthen its research potential in the area of photonics and quantum science. The action supported by EU-funded project PhoQuS@UW includes establishment of new research activities in the broad area of optical methods in life sciences. To this end, University of Warsaw, Faculty of Physics is inviting applications for the position of a postdoctoral researcher in the area of biophotonics. The newly employed postdoctoral researcher is expected to strongly contribute to research activities of the existing biophotonics group as well as the development of the group's experimental capabilities. The University will provide 6-month personnel costs for the position starting from November 1st, 2015.

The research carried out by the bio-photonics group concerns a widely defined applications of optics and photonics in life sciences such as, e.g. optical imaging in medicine
and biology, use of light in diagnostics and treatment or manipulation of biological objects with laser beams.

It is expected that the candidate will hold a PhD title in the field of physics or engineering. In addition, it is expected that the candidate will have relevant experience and achievements in at least one of following fields related to bio-photonics:

- plasmonics and advanced imaging techniques: experience in the design of plasmonic components for imaging and sensing. The candidate should have a theoretical background in diffractive optics, guided-wave optics, superresolving imaging, and in indirect imaging techniques, and significant experience in rigorous and scalar-based optical modeling and in the modeling of interaction of light with metallic nanoparticles or thin layers.

- microfluidics for biological sensing: experience in operating, designing and constructing microfluidic circuitry for handling ultra-small volumes of reagents. Experience in integration of planar photonic structures with microfluidic, and electronic components (experience concerning sensor applications will be strongly appreciated);

DOCUMENTS REQUIRED:

- Application to enter the contest
- Curriculum vitae
- Copy of doctorate certificate
- Research statement including plans for the advertised position
- List of publications
- Candidates have to send names and contact information of three persons who can provide reference letters

HOW TO APPLY:

Apply in writing to the Department of Optics, Institute of Experimental Physics, Faculty of Physics, University of Warsaw, ul. Hoza 69, PL-00681 Warsaw (contact for details by e-mail to: phoqusjobs@fuw.edu.pl)

Applications documents and contact details of the referees should be also sent by email to: phoqusjobs@fuw.edu.pl