



## FORM FOR EMPLOYERS

INSTITUTION: **UNIVERSITY OF WARSAW, FACULTY OF PHYSICS**

CITY: WARSAW, **POLAND**

POSITION: teaching/research assistant professor (adjunct)

NUMBER OF POSITIONS: **2**

DISCIPLINE: Optics, Photonics, Plasmonics

POSTED: April 4, 2017

EXPIRES: May 15, 2017

WEBSITE: **WWW.FUW.EDU.PL**

KEY WORDS: photonics, plasmonics

DESCRIPTION (field, expectations, comments):

The Information Optics Laboratory at the Institute of Geophysics, Faculty of Physics, University of Warsaw invites applications for 2 teaching/research assistant professor (adjunct) full-time positions. The post holders are expected to join our team for 33 months starting on October 1st 2017.

The successful candidates will join our team working both in simulations and experiments in photonics and dispersion engineering of surface plasmon-polariton waves in metal-dielectric nanostructures with applications in photovoltaics, plasmonic sensors, and functional linear and nonlinear materials.

We are seeking 2 candidates with background in computational electrodynamics and experimental techniques of fabrication and characterization of metal-dielectric nanostructures. Proficiency is required in at least one major simulation method (finite element or finite difference methods in time and/or frequency domain) and high-level programming languages (e.g. C/C++, Python, Matlab). The successful candidate should have an understanding of fundamental optical phenomena at the nanoscale.

We require experience in techniques used for fabricating nanostructures (e.g. thin film evaporation, focus ion beam etching) and be skilled in both physical (e.g. energy-dispersive X-ray spectroscopy, X-ray diffraction spectroscopy, scanning near-field probe microscopy, electron microscopy) and optical (e.g. ellipsometry, spectral interferometry, polarimetry, pump and probe experiments) characterization methods.

An additional advantage will be experience in conducting research in the following areas: photovoltaics, plasmonic sensors and/or functional linear and nonlinear materials.

A very good command of written and spoken English is essential and the candidates can expect the same from all members of the team.

The candidate should provide the following documents to [sekretariat@igf.fuw.edu.pl](mailto:sekretariat@igf.fuw.edu.pl) :

1. Application for the position required together with the acceptance for the treatment of personal data: "I hereby give consent for my personal data to be processed for the purposes of recruitment, in accordance with the Personal Data Protection Act dated 29.08.1997 (uniform text: Journal of Laws of the Republic of Poland 2002 No 101, item 926 with further amendments)".
2. CV detailing the candidate's experience and research track record.
3. Doctoral diploma in physics.
4. A proof of being employed after obtaining their PhD for a period of three year at a research or teaching position.
5. Information on teaching experience.
6. List of publications.
7. Information on reviewing manuscripts submitted to scientific journals.
8. A description of two most important own research achievements (after PhD).
9. Two reference letters from independent researchers (holding a professor position or habilitation degree).

Please provide a cover letter outlining the motivation and participation in international collaboration. Information on submitted project proposals or planned submissions is welcomed.

Please direct any other inquiries to prof. Tomasz Szoplik [tszoplik@mimuw.edu.pl](mailto:tszoplik@mimuw.edu.pl).

Applications will be reviewed by The Recruitment Committee, appointed by the Council of the Faculty Physics UW, by May 22nd, 2017. In case candidates are asked for a qualification interview, they will be informed individually.

This announcement is the first step in the procedure of employing an academic teacher at the University of Warsaw and the positive decision decides on entering into subsequent steps.