



FORM FOR EMPLOYERS

INSTITUTION	UNIVERSITY OF WARSAW, FACULTY OF PHYSICS
CITY	WARSAW, POLAND
POSITION	Post-doctoral research associate
DISCIPLINE	Physics (optics, quantum information)
NUMBER OF POSITIONS	1
POSTED	26.08.2019
EXPIRES	14.10.2019
WEBSITE	www.fuw.edu.pl , photon.fuw.edu.pl
KEY WORDS	quantum optics, femtosecond pulse shaping, single photon generation and detection, quantum metrology.

DESCRIPTION (field, expectations, comments):

We are looking for a highly motivated post-doc to work within the project “Phase-only shaping of quantum light pulses for applications in quantum technologies”. The goal of the project is to implement low-loss spectral-temporal transformations of the quantum state of single-photon light pulses. The transformations will be implemented using non-linear optics and electro-optics methods. We will develop their applications within quantum technologies, including photonic quantum network interfaces, quantum information processing and quantum metrology of time and frequency.

There are several possible roles you can take in the project, depending on your experience and interests: from theoretical conceptual work on time and frequency metrology, through investigating optimal sequences of spectral transformations, to experimental implementation of spectral transformations and their applications, including spectral shaping of single photons from solid-state emitters.

The project is carried out at the Quantum Photonics Lab of the Faculty of Physics, University of Warsaw and funded within the First Team programme of the Foundation for Polish Science. We offer employment in a young international team, at the forefront of current research activities within quantum optics, at the interface of theory and experiment, for a competitive salary. Employment duration is up to 27 months.

Faculty of Physics of the University of Warsaw is the top physics research institution in Poland, ranked within the top 100 physics research institutes in the world. We are a part of the strong local quantum optics and quantum information research community, quantum-warsaw.pl. The project is carried out in active collaboration with teams from the Optoelectronics Research Centre of the University of Southampton (UK), Laboratoire Kastler Brossel of the Sorbonne University in Paris (France) and the Saarland University (Germany).

The candidates have to conform to the conditions stated in art. 113 of Higher Education Law dated 20.07.2018 (Journal of Laws of the Republic of Poland 2018, item 1668) (standard integrity conditions).

Employment conditions

The work will be carried out at the Institute of Experimental Physics at the Faculty of Physics of the University of Warsaw under the supervision of dr Michał Karpiński. Employment duration up to 27 months, full-time.

Requirements:

You must be holding a PhD degree obtained not earlier than 4 years before the year of the beginning of the employment in the project, excluding parental leaves etc.

You are expected to have 2+ years of research experience in at least **one** of the following areas:

1. Theoretical or experimental optics of ultrashort pulses of light; shaping and / or characterization of ultrashort pulses of light; or
2. Theoretical or experimental quantum photonics and/or quantum metrology; or
3. Generation of single photons from solid-state emitters, single photon detection.

You are expected to be able to easily communicate in English, both written and spoken.

To apply you should send the following documents by email to [michal.karpinski \[at\] fuw.edu.pl](mailto:michal.karpinski@fuw.edu.pl) in the form of a single archive containing the following PDF files (e-mail subject: "Postdoc First Team"):

1. Cover letter. *You should provide a scanned copy of the signed document,*
2. Copy of your doctoral diploma,
3. Curriculum vitae,
4. List of publications (please indicate your most important achievement)
5. Information on the processing of personal data – information clause and consent clause (available at <http://bsp.adm.uw.edu.pl/bsp/druki-i-formularze/>). *Please print and sign the document, and provide a scanned copy as a part of your application.*

In addition, you should ask two independent researchers to send a referral letter for you directly to [michal.karpinski \[at\] fuw.edu.pl](mailto:michal.karpinski@fuw.edu.pl). The names, contact details (phone number, e-mail address) and affiliations of the Referees should be indicated in the application documents.

The application deadline is midnight **14 October 2019**.

Selected candidates may be invited for an interview with the recruitment commission appointed by the Dean of the Faculty. All candidates will be informed about the results of their application by e-mail.

The recruitment procedure will be concluded before 31 October 2019. The employment start date will fall after the conclusion of the procedure, and may be agreed between you and the Faculty. If you are selected for employment, you will need to provide originals of the application documents, as well as additional documents, including a formal application for employment.

This announcement is the first step in the procedure of employing an academic teacher. Its positive result will form the basis for further steps of the procedure.

INFORMATION ON THE PROCESSING OF PERSONAL DATA

INFORMATION CLAUSE

Pursuant to Article 13 of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), University of Warsaw hereby informs:

1. The Controller of your personal data is the University of Warsaw with its registered office at Krakowskie Przedmieście 26/28, 00-927 Warszawa;
2. The Controller has designated the Data Protection Officer who supervises the processing of personal data, and who can be contacted via the following e-mail address: iod@adm.uw.edu.pl;
3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw;
4. The provided data will be processed pursuant to Article 22¹ § 1 of the Act of 26 June 1974 Labor Code (uniformed text: Dz.U. of 2018, item 917) and your consent for processing of personal data;
5. Provision of data in the scope stipulated in the Labor Code is mandatory, and the remaining data are processed according to your consent for processing of personal data;
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8. You have the right to access your personal data, to rectify, erase them, restrict their processing, object to processing, and to withdraw the consent at any time;
9. You have the right to lodge a complaint to the President of the Office for the Protection of Personal Data.

CONSENT CLAUSE

I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw.

I have been informed of my rights and duties. I understand that provision of my personal data is voluntary.

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(place and date)

.....
(signature of the person applying for employment)