

JOB OFFER

Position in the project:	PhD Student
Scientific discipline:	physics, quantum optics
Job type (employment contract/stipend):	stipend
Number of job offers:	1
Remuneration/stipend amount/month :	4.400 PLN/month
Position starts on:	5.03.2018
Maximum period of contract/stipend agreement:	5.03.2018-31.12.2020
Institution:	University of Warsaw, Faculty of Physics Institute of Experimental Physics, Optics Division, Quantum Optics Lab Warsaw, Poland
Project leader:	Dr Radek Łapkiewicz
Project title:	<i>Spatiotemporal photon correlation measurements for quantum metrology and super-resolution microscopy</i> Project is carried out within the First Team programme of the Foundation for Polish Science
Project description:	Up until recently quantum optical effects in imaging were regarded as a peculiarity. New developments in photon detection technology changed this situation. In Quantum Optics Lab at the University of Warsaw we will develop new

	<p>tools and methods for detecting photons with high spatial and temporal resolution. These tools will enable us to extract useful information from light more efficiently, which is crucial for applications where the number of detected photons is the limiting factor.</p> <p>Our goal is to demonstrate that by measuring light correlations, rather than light intensity, we can break the limitations of standard imaging. We will assemble and characterize an ultrafast single photon sensitive camera that will enable us to detect multiple photons per frame with high spatial and temporal resolution. The camera will be applied to quantum imaging and super-resolution microscopy.</p>
<p>Key responsibilities include:</p>	<ol style="list-style-type: none"> 1. Constructing experimental setups. 2. Writing codes for data acquisition and analysis. 3. Data analysis. 4. Writing manuscripts.
<p>Profile of candidates/requirements:</p>	<ol style="list-style-type: none"> 1. Documented experience in experimental AMO physics. 2. Experience with Python/Matlab/Labview programming. 3. Experience with laboratory electronics. 4. Spoken and written English.
<p>Required documents:</p>	<ol style="list-style-type: none"> 1. CV 2. Cover letter 3. Description of scientific interests and research experience. 4. Contact to at least 2 academic referees. 5. Transcript of study records.
<p>We offer:</p>	<ol style="list-style-type: none"> 1. Participation in cutting-edge research 2. Collaboration with the top groups in the field

Please submit the following documents to:	radek.lapkiewicz@fuw.edu.pl with the email title “FNP First Team PhD Student Application” In case of a successful application, please provide the original documents within a week to the project leader
Application deadline:	February 28., 2018; 9:00 a.m. CET
For more details about the position please visit (website/webpage address):	The website http://quantumoptics.fuw.edu.pl/
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://euraxess.ec.europa.eu/jobs/275108
Please include in your offer: “I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended.”	