

JOB OFFER

Position in the project:	postdoc position
Scientific discipline:	physics
Job type (employment contract/stipend):	employment contract
Number of job offers:	1
Remuneration/stipend amount/month	15000 PLN/month gross (approx 9500PLN/mont nett)
Position starts on:	01.10.2017
Maximum period of contract/stipend agreement:	1.10.2017-31.08.2020
Institution:	Institute of Physics Faculty of Physics, Astronomy and Informatics Nicolaus Copernicus University in Toruń, Poland
Project leader:	Dr Piotr Kolenderski
Project title:	<i>Applications of single-photon technologies</i> <i>Project is carried out within the First Team programme of the Foundation for Polish Science</i>
Project description:	The research project aims at developing: 1) single-photon sources and single photon characterization techniques, and their 2) applications in a selection of problems, which have a high potential to be solved using carefully prepared states of photons. Those problems are quantum communication with single-mode fibers and free space link using satellite receiver, efficient entangled two-photon absorption and quantum interference with nanostructures .
Key responsibilities include:	1. Analysis of quantum communication protocols in a

	<p>presence of chromatic dispersion</p> <ol style="list-style-type: none"> 2. Study of a photon-medium interaction (atoms, molecules, rear earth ions) 3. Preparation of research papers and presenting the research results at international conferences. 4. Co-supervision of PhD and MSc students
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. PhD degree in physics 2. Strong background in theoretical quantum optics and quantum communication 3. Documented scientific expertise in quantum optics and/or atomic/molecular physics 4. Experience in Mathematica/Matlab/Python programming 5. Strong oral and written communication skills in English
Required documents:	<ol style="list-style-type: none"> 1. CV 2. Motivation letter 3. A list of publications 4. Contact details to at least one academic referee 5. A scanned copy of PhD and MSc diploma
We offer:	<ol style="list-style-type: none"> 1. Long term contract (up to 3 years) 2. Work in an interdisciplinary environment and collabaoration with international resarch groups 3. Competetive salary
Please submit the following documents to:	<p>kolenderski@fzyka.umk.pl</p> <p>In case of a successful application, please provide the original documents within a week to the project leader</p>

Application deadline:	September 28, 2017 9:00am CET
For more details about the position please visit (website/webpage address):	The website www.fizyka.umk.pl/fizyka_en
Euraxess job/stipend offer (in case of PhD and postdoc positions):	
<p>Please include in your offer:</p> <p>“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.”</p>	