JOB OFFER

Position in the project:	PhD Student
Scientific discipline:	Physics
Job type (employment contract/stipend):	Stipend
Number of job offers:	1
Remuneration/stipend amount/month *("X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"):*	Stipend amount: **3 800 PLN** / month Expected net amount: 3 800 PLN/month The stated amount is in addition to the stipend offered by the Doctoral School
Position starts on:	1 December 2022 (flexible)
Maximum period of contract/stipend agreement:	up to September 2023
Institution:	Jagiellonian University in Krakow
Project leader:	Team Leader: Dr. Adam Wojciechowski / Consortium Leader: Prof. Ryszard Buczyński (University of Warsaw)
Project title:	**QU**antum-effect-based **N**anosensing and imaging: **N**ovel glass-diamond photonic approach for the next generation biodiagnostic **A**pplications (QUNNA) ***Project is carried out within the TEAM-NET programme of the Foundation for Polish Science***
Project description:	The Project concentrates on the development of new photonic materials, components and systems based on nanodiamonds with a focus on nitrogen-vacancy (NV) color centers. It addresses societally significant areas, including highly sensitive cancer cell detection and nano-magnetic tagging/imaging of biological matter. The successful candidates will carry out experimental research in the group led by Dr. Adam Wojciechowski at the Jagiellonian University in Krakow. Research tasks: • Development of new techniques and photonic platforms for measuring and imaging magnetic fields with nanodiamonds containing NV centers
Key responsibilities include:	1. Conducting experimental research 2. Data analysis and discussion with team members 3. Presenting results at workshops and conferences, drafting scientific articles 4. Active involvement in group activities

Profile of candidates/requirements:	1. Having a status of a PhD student on the starting date 2. Good knowledge in the following fields: • optical spectroscopy, • magnetic resonance • modern microscopy techniques (confocal, wide-field, fluorescence) 3. Experience in • optical setup design and construction • programming languages (Matlab, Python, LabView and/or Mathematica) will be an additional asset 4. Proven research record (publications, talks) will be an additional benefit 5. Good spoken and written English
Required documents:	1. CV 2. Statement of research interests (max. 1 page) 3. At least 1 letters of recommendation (confidential, should be sent via email by a senior scientist) 4. Signed agreement on the processing of personal data – form available on the website: https://zf.if.uj.edu.pl/en/qunna
We offer:	1. **Scholarship 3 800 PLN/month (gross)** 2. **Additional development fund** (for conferences, travel, summer schools etc.): **3 800 PLN / month**. 3. Working in a young, dynamically developing team 4. Well-equipped laboratories 5. Scientific supervision (local and external mentor)
Please submit the following documents to:	Dr. Adam Wojciechowski a.wojciechowski@uj.edu.pl with the subject line: "phd student application"
Application deadline:	**30 Oct 2022** Selected candidates will be invited by email for the interview (on-line). Appeals and comments on recruitment process may be sent within 7 days of forwarding the decision via the same email address.
For more details about the position please visit (website/webpage address):	https://qunna.pl
Euraxess job/stipend offer (in case of PhD, postdoc, leader and young leader positions):	https://euraxess.ec.europa.eu/jobs/843118/

Due to the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, we also require that your job advertisements include a clause requesting the candidate's consent to the processing of his or her personal data by the institution which carries out the recruitment process.