

JOB OFFER

Job title:	Student
Discipline:	Electronics, Electronic Materials, Photonics, Material Science
Remuneration method (remuneration under an employment contract/ scholarship):	Scholarship
No. of job offers:	2
Remuneration / scholarship	PLN 2150 / month
Job start date:	May 1st, 2022
Employment period:	Maximum 12 months
Unit (department/ institute / faculty / university / organisation, city):	The Gdańsk University of Technology, Faculty of Electronics, Telecommunications and Informatics, Gdańsk, Poland
Unit Head/ Team leader:	Dr Hab. Eng. Robert Bogdanowicz
Project title:	„Nanosensorics and imaging utilizing quantum effects – the synergy of glass and diamond for applications in the new generation of biodiagnostics” <i>The project is implemented as part of the TEAM NET program of the Foundation for Polish Science.</i>
Project description:	<p>The project entails the research of new materials, elements and photonic systems in which implanted colour centres or crystal diamond defects with specific magnetic and optical properties will be used. It will enable applications in socially important areas, e.g. the development of super-sensitive cancer cell detection and nano-labeling of biological substances.</p> <p>The project is implemented by a consortium of 4 partners: The University of Warsaw, Faculty of Physics (Consortium Leader); Jagiellonian University in Kraków, Faculty of Physics, Astronomy and Applied Computer Science; Gdańsk University of Technology, Faculty of Electronics, Telecommunications and Informatics, and the Institute of Biotechnology and Molecular Medicine.</p> <p>The Research Team at the Gdańsk University of Technology will work on developing strategies, methods, and technologies for combining various glass platforms with nanodiamonds. The team's work will be focused on challenges related to the progress in the field of biodiagnostics using photonics and ultrafast optics devices with shaped non-linearity.</p>
Research tasks:	<ol style="list-style-type: none"> 1) design optical systems for imaging of nanodiamond 2) analysis of the diamond and nanodiamond structures 3) microscopic studies of nanodiamond interaction with biosystems
Expectations of candidates:	1) status of a student, at the stage of signing the contract, in a discipline related to the subject of the Project, in particular to the issues to be undertaken by the Scientific Team at the Gdańsk University of Technology (e.g. control, electronic and electrical engineering, materials engineering),

	<p>2) knowledge of the optical characterization of diamond structures with colour centres will be an additional advantage,</p> <p>3) practical experience in the optical characterization of nanoparticles and nanocomposite materials,</p>
List of required documents:	<p>1. Cover letter (pdf with scanned signature)</p> <p>2. Information on personal data processing - information clause and consent clause - in the form attached to the call for candidates (pdf with scanned signature)</p> <p>3. CV</p> <p>4. list of scientific achievements</p> <p>5. certificate of a status of a student</p> <p>6. candidate's declaration of consent to the candidate's personal data processing by the Gdańsk University of Technology</p>
We offer:	<p>+ Scientific and academic challenges at work at a leading university in Poland</p> <p>+ Attractive remuneration</p> <p>+ Availability of world-class scientific equipment</p> <p>+ Access to scientific and academic contacts at the EU and global level</p>
Additional information about recruitment (e.g. website address):	www.pg.edu.pl / qunna.pl
Link to the Euraxess website (applies to call for candidates for doctoral studies and for young doctors):	https://euraxess.ec.europa.eu/jobs/753250
Application submission address (email):	<p>Prof. Dr. Hab. Eng. Robert Bogdanowicz, e-mail address: rbogdan@eti.pg.edu.pl please enter in the title: “QUNNA Research student position”.</p> <p>Candidates discarded in the recruitment process have the right to appeal within 7 days. The appeal should be e-mailed to rbogdan@eti.pg.edu.pl</p> <p>The content of this announcement is available on request (etdnp@qunna.pl) in a large-text form intended for people with vision problems.</p>
Deadline for applications:	April 15th, 2022

In connection with the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, we kindly ask to include in the content of recruitment announcements a clause asking for consent to the processing of the candidate's personal data by the recruiting organisation.