

JOB OFFER

Position in the project:	PhD student
Scientific discipline:	quantum physics
Job type (employment contract/stipend):	Stipend
Number of job offers:	3
Remuneration/stipend amount/month:	monthly stipend 4 500,00 PLN (gross stipend, tax included) – until 31.08.2023 (funding from the IRAP project) monthly stipend 3.653,70 PLN (gross stipend, tax included) – from 1.09.2023 until 30.09.2025 (funding form Doctoral School)
Position starts on:	01.10.2021 (for candidates who already have a master's degree and candidates who plan to defend their master's thesis no later than July 31, 2021) For candidates who are already doctoral students the starting date is negotiable.
Maximum period of contract/stipend agreement:	up to 48 months
Institution:	International Centre for Theory of Quantum Technologies at the University of Gdansk, Poland
Project leader:	Marek Żukowski
Project title:	<i>International Centre for Theory of Quantum Technologies (ICTQT)</i> <i>[Project within the International Research Agenda programme of the Foundation for Polish Science]</i>
Project description:	<u>About project</u> We are looking for PhD students to work in the newly created International Centre for Theory of Quantum Technologies (ICTQT), funded by the Foundation for Polish Science, and hosted by the University of Gdansk. The founders of ICTQT are Marek Żukowski as the director, and Paweł Horodecki as a co- applicant. The Centre's official foreign partner is IQOQI-Vienna of the Austrian Academy of Sciences. Gdansk is the pioneering and leading center of quantum information research in Poland. Gdansk, and the whole Tri-City, is one of the most beautifully located urban areas in Poland, with sandy sea beaches, lakes, and woods within in it and in the nearby area. It is the birthplace of Polish jazz and rock festivals, and vibrant in many fields. The Centre consists of 6 groups: Multiphoton Quantum Optics for Quantum Information (leader Marek Żukowski); New Quantum Resources (leader Paweł Horodecki); Foundational Underpinnings of Quantum Technologies (leader Ana Belen Sainz); New Quantum Resources and Thermodynamics (leader Michał Horodecki); Quantum Cybersecurity and Communication (leader Marcin Pawłowski); Quantum Open Systems in Relation to Quantum Optics (leader Łukasz Rudnicki). More about the research groups please find at you will find here: https://ictqt.ug.edu.pl/
Key responsibilities include:	<ol style="list-style-type: none"> 1. Active scientific research. 2. Discussion and presentation of ideas and results with a diverse audience at ICTQT and at external events. 3. Participation in seminars, group meetings, and other activities of scientific exchange. 4. Participation in activities organized by ICTQT.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. The candidate should hold a MSc degree in physics (preferable), computer science or mathematics. 2. The candidate should be interested in mathematical and conceptual foundations of quantum mechanics and quantum information, and related topics, especially those which are within the research agenda of ICTQT (visit https://ictqt.ug.edu.pl/). 3. The candidate should be committed to working collaboratively within an inclusive and diverse environment. 4. Basic knowledge of quantum information theory is appreciated. 5. Experience in programming (C++, Python or Matlab) is appreciated.

Required documents:	<p>All required documents should be prepared in English:</p> <ol style="list-style-type: none"> 1. filled-in recruitment form; 2. curriculum vitae (including, e.g., awards and publications, if any); 3. Optional: a research resume with a list of research projects (if any) in which the candidate took part (with specification of the role); PDF files of publications (if any); list of talks at conferences and workshops, list of prizes and awards (if any); 4. motivation letter (including statement of current scientific interests)– up to 2 pages; 5. documents confirming scientific degrees (copy of diploma thesis); 6. name and contact details (e-mail addresses) to two senior researchers who may provide reference for the candidate (the candidate is expected to contact the referees and ask them to send reference letters directly to ictqt@ug.edu.pl. The letters must be sent before the deadline). ICTQT may also contact the referees directly, to request the letters, or to send reminders. <p>General rules of the recruitment process:</p> <ol style="list-style-type: none"> 1. The recruitment procedure has three stages: <ul style="list-style-type: none"> o Pre-selection candidates by the Selection Commission (SC), based on an application form; o Interview of pre-selected candidates by SC; o Recruitment to the Doctoral School of exact and natural sciences (a formal UG procedure). 2. PhD student positions are offered to candidates who have received a master's degree and who are already PhD students at other Universities/Institutions. 3. PhD student positions are also offered to candidates who plan to defend their master's thesis no later than July 2021. 4. The decision will be made by ICTQT Selecting Commission (SC) within 3 months from the date of recruitment completion. 5. SC reserves the right to invite for the interview only pre-selected candidates. 6. SC's decision is final and is not subject to appeal. 7. SC reserves the right to close the competition without selecting the candidate.
We offer:	<ol style="list-style-type: none"> 1. Monthly stipend 2. Work in a rapidly developing unit, the International Centre for Theory of Quantum Technologies at the University of Gdansk; 3. Scientific and organizational support; 4. Basic equipment and core facilities; 5. Friendly, inspiring, interdisciplinary environment, including “entanglement” with National Centre for Quantum Information (KCIK) and Institute for Theoretical Physics and Astrophysics (IFTiA) at UG.
Please submit the documents to:	ictqt@ug.edu.pl
Application deadline:	March 12, 2021
For more details about the position please visit:	https://euraxess.ec.europa.eu/jobs/602836
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