

PhD positions in theoretical quantum optics / condensed matter



The University of Warsaw, founded in 1816, is the leading higher education establishment in Poland with over 53,000 students and 3,500 teaching and research employees, 20 faculties and 30 centers. The University is a well-established centre of excellence in photonics, quantum science and computer science, with theoretical and experimental research covering quantum optics, ultrafast phenomena, plasmonics, photonic nanostructures, quantum information, quantum memories, mathematics, cryptography, machine learning and theoretical computer science.

We are looking for a highly motivated and talented

PhD students / Early-Stage Researchers

willing to join the QCAT Quantum Technologies Research Group led by Dr. habil. Magdalena Stobinska and her team undertaking Marie Skłodowska-Curie Actions, Innovative Training Network research project “AppQInfo – Applications and Hardware for Photonic Quantum Information Processing”, funded by the Horizon 2020 European Framework Programme as well as “Sonata Bis” project entitled “Employing multiphoton quantum interference for selected quantum information processing tasks”, funded by the National Science Centre. The project aim at research in the field of quantum information processing, quantum optics, as well as condensed matter. They will be carried out in international collaboration with groups from the Imperial College London (United Kingdom), Institute for Quantum Computing (Canada), University of Paderborn (Germany), IBM Research (Switzerland), NTT (Japan), Single Quantum (The Netherlands) and ESA Earth Observation Center (Italy).

An ideal candidate should possess a MSc degree in physics, mathematics or computer science, should be ambitious and hard-working with high motivation for scientific work and strong will for self-development. A numerical programming practice, good knowledge of mathematical tools (e.g. Matlab or Wolfram Mathematica) and general computer software is a plus. We expect a good practical knowledge of English (B or C level preferred) and ability to travel within the EU and worldwide.

In order to apply for the position, please send a scientific curriculum vitae to the **email address** magdalena.stobinska@gmail.com. Please describe your education, employment history, previous participation in research projects, collaborations, internships, stipends, conferences, other achievements as well as scientific interests, a list of publications. Selected candidates will be asked to submit their formal application through the Doctoral School of the Exact and Natural Sciences of the University of Warsaw.

The PhD students will start in Fall 2021. Application deadline is **June 24th, 2021** but we welcome inquires of talented graduates all over the year.

More information:

1. <https://euraxess.ec.europa.eu/jobs/651290>
2. <https://euraxess.ec.europa.eu/jobs/651291>

Please send any inquiries regarding the positions to:

E-Mail: magdalena.stobinska@gmail.com

WWW: www.stobinska-group.eu and www.appqinfo-itn.eu