**JOB OFFER**

Position in the project: PhD student  


Job type (employment contract/stipend): Scholarship  

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"): 3700 - 4 500 PLN (net)  

Position starts on: 1. February 2021  

Maximum period of contract/stipend agreement: 19 months (with possibility of extension up to 25 months)  

Institution: Centre for New Technologies (CeNT)  
http://cent.uw.edu.pl/en/  
University of Warsaw  

Project leader: Dr. Alexander Streltsov  

Project title: Quantum Coherence and Entanglement for Quantum Technology  

*Project is carried out within the First Team programme of the Foundation for Polish Science*  

Project description: Successful candidates will work in a team of theoretical physicists on fundamental features of quantum systems and their applications in quantum technology. Potential research topics include:  
- Quantum resource theories (entanglement, coherence, thermodynamics)  
- Quantum communication and quantum
### Key responsibilities include:

1. Investigation of general quantum features, such as entanglement and quantum coherence, in quantum protocols and quantum computation.
2. Preparation and dissemination of the research results at international workshops and conferences.

### Profile of candidates/requirements:

PhD candidates should have a master degree in physics or related area, and have a good understanding of physics, quantum theory, and quantum optics.

Candidates should have a confirmed status of a PhD student on the day of starting the work in the project.

*University of Warsaw* strongly values the diversity of candidates and is very committed to the equality of opportunity. [http://en.uw.edu.pl/about-university/mission-statement-strategy](http://en.uw.edu.pl/about-university/mission-statement-strategy)

### Required documents:

1. Motivation Letter
2. Current curriculum vitae
3. Research record
4. Academic transcript
5. At least one letter of reference prepared by a senior researcher familiar with their work to be sent directly by the author to the address a.streltsov@cent.uw.edu.pl with the name of the candidate specified in the subject line.
6. Signed information on the personal data processing.

### We offer:

Participation in an exciting research program conducted within a newly established centre with high scientific expectations and goals.

Work within Quantum Resources and Information Lab, led by Dr. Alexander Streltsov, yet in close collaboration with theoretical and experimental groups within the Centre for Quantum Optical Technologies, as well as other research teams specialising in quantum theory and its implementations within Warsaw's research community: [http://quantum-warsaw.pl/](http://quantum-warsaw.pl/).

An open and friendly research environment with access to all the facilities available within the *Centre of New Technologies* (CENT)—an interdisciplinary research institute established within the *University of Warsaw* to gather international researchers of different backgrounds and experience, in order to conduct state-of-the-art research in biological, chemical and physical science: [http://cent.uw.edu.pl/en/](http://cent.uw.edu.pl/en/).
Close collaboration with foreign institutions, with the necessary financial support of travels and scientific visits.

| Please submit the following documents to: | E-mail address: [a.streltsov@cent.uw.edu.pl](mailto:a.streltsov@cent.uw.edu.pl) |
| Application deadline: | November 30, 2020 |
| For more details about the position please visit (website/webpage address): | [http://qot.cent.uw.edu.pl/qri-lab/](http://qot.cent.uw.edu.pl/qri-lab/) |
| Euraxess job/stipend offer (in case of PhD and postdoc positions): | [https://www.euraxess.pl/poland/jobs-funding](https://www.euraxess.pl/poland/jobs-funding) |