

31.01.2023 Kraków

**Physics Postdoctoral Research Associate in Theory of Quantum Systems Group in Academic Centre for Materials and Nanotechnology AGH UST.**

The Theory of Quantum Systems Group invites applications for a Postdoctoral Researcher in the field of theory and computational modelling of electronic properties of hybrid nanostructures. The research will involve modelling of topological superconductors, superconductor-semiconductor heterostructures with the aim to focus on quantum transport, prospects of realization of superconducting qubits and interacting artificial superconducting atoms.

Expectations:

- Ph.D. in physics or related field obtained not earlier than in 2016,
- scientific achievements documented by publications from JCR list and conference presentations,
- experience in theory and computational modeling of semiconducting and/or superconducting systems,
- experience in at least two programming languages (Python preferred).

The position includes opportunities for travel both to present at conferences and to collaborate with other groups. This research will be conducted with Michał Nowak (<http://mpnowak.org>) and members of Theory of Quantum Systems Group (<https://acmin.agh.edu.pl/2021/06/theory-of-quantum-systems/>).

To apply, submit an online application that includes a curriculum vitae, a cover letter, research statement, a list of at least 2 references and filled and signed consent to personal data processing (attached below) to [mpnowak@agh.edu.pl](mailto:mpnowak@agh.edu.pl). For full consideration, submit application materials by the review date, February 28, 2023.

Planned start date of the position: April 2023

Planned period of employment: 24 months

Salary: circa 8 000 PLN gross with extra 13<sup>th</sup> salary

Place ....., date.....

.....  
*name and last name*

.....  
*address*

### CONSENT TO PERSONAL DATA PROCESSING

(recruitment - employee)

By virtue of Article 7 of the Regulation of the European Parliament and Council (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC, hereinafter referred to as "GDPR", I hereby give my consent to the processing of my personal data other than the data mentioned in Article 22<sup>1</sup> § 1 of the Labour Code and contained in my CV and other application documents, and to the reproduction of my physical likeness for the purposes of recruitment and selection for the position of .....

Additionally, I hereby represent that the request for consent has been presented in an explicit and clear form and that I have been informed about a possibility of withdrawing my consent at any time as well as about consent accountability. I have also been informed about the fact that the data are collected by **AGH University of Science and Technology, al. A. Mickiewicza 30, 30-059 Krakow**, the purpose of their collection, freedom of their disclosure, and the right to access and rectify the data.

.....  
*Date and signature of the candidate*