

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 theoretical and computational condensed matter physics group of Prof. Michał Nowak. The research involves modelling of topological superconductors, superconductor-semiconductor heterostructures, topological Josephson junctions with the aim to focus on quantum transport and nonreciprocal phenomena.

Candidates should have a Ph.D. in physics or a related field. Experience in theoretical and computational modeling of topological superconducting systems is highly desirable. Additional expertise in computational quantum transport methods is highly welcomed.

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/>).

The position is funded from AGH Excellence Initiative. The PostDoc candidate can't be past or present employee of AGH University and has to be under 35 years old.

Planned start date of the position: January 2023

Planned period of employment: 18 months with possibility to prolong by another 15 months

Salary: 8 000 PLN gross with extra 13th salary and possibility to apply for additional financing.

To apply, submit an online application mpnowak@agh.edu.pl. For full consideration, submit application materials by the review date, December 9, 2022.

Below please find detailed advertisement for this position that specifies the exact requirements for the candidates along with the documents that need to be submitted. The advertisements is also available in Polish at: <https://bip.malopolska.pl/api/files/3063067>

INSTITUTION: AGH University of Science and Technology

DEPARTMENT: Academic Centre for Materials and Nanotechnology

CITY: Kraków

POSITION: adjunct in a group of research workers

DISCIPLINE: physical sciences

EXPIRES: 9.12.2022

DESCRIPTION (field, expectations, comments, requirements):

Expectations:

- PhD in physics or a related field,
- scientific achievements documented by publications from the JCR list,
- experience in theory and computational modeling of semiconducting and superconducting systems,
- proven knowledge of the English language at a level of at least B2 or equivalent,
- creative approach to problem solving, the ability to work in international teams, diligence and communicativeness,
- age under 35.

Criteria that will be considered as additional advantages:

- experience in Python programming language,
- experience in computational quantum transport methods.

DOCUMENTS REQUIRED

1. job application, cv, personal questionnaire,
2. Research Statement letter,
3. a document confirming the knowledge of the English language at a level of B2 or equivalent,
4. copies of diplomas and other certificates confirming the qualifications,
5. list of scientific achievements,
6. list of at least two references,
7. filled and signed consent to personal data processing.

Documents should be submitted in electronic form to the address: mpnowak@agh.edu.pl

The AGH University will be the candidate's main place of employment.

The AGH University of Science and Technology does not require you to provide any information or data other than those resulting from the applicable law (name/names, surname, date of birth, contact details, education, professional qualifications and employment history). However, if you choose to include your photograph or any other information, please fill in and attach this statement of consent to the processing of personal data, which constitutes an attachment to this information.

The controller of your personal data processed in order to carry out the recruitment process for the above-mentioned position is the Stanisław Staszic AGH University of Science and Technology in Krakow, al. A. Mickiewicza 30, 30-059 Krakow. You can read the full information concerning the processing of your personal data on the AGH University of Science and Technology's website after going to the "Protection of personal data" tab at (www.agh.edu.pl/RODO).

The University reserves the right not to settle the competition without providing any reason or justification. Winning the competition is not tantamount to ensuring the candidate's employment. The result of the competition serves solely as a recommendation to the Rector in this regard. The final decision concerning the employment will be made by the Rector.

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 22¹ § 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.

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Date and signature of the candidate