Center for Theoretical Physics
of the Polish Academy of Sciences
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HR EXCELLENCE IN RESEARCH

Adjunct-Postdoc (f/m/x)

Ref Number: **MO/09/2026**
Location: Warsaw, Poland
Salary: PLN 12,564 gross/month (approximately PLN 9,600 net)
Number of positions available: 1
Work Arrangement: In-Person

The position is available from July 2026 for a maximum period of 15 months.

Important Dates:

1. Application deadline: **15 June 2026.**
2. Candidates will be informed of the outcome of the recruitment process by **30 June 2026.**

Founding Source:
The project “Towards a useful Quantum Advantage” (TouQan), funded by ERA-NET Cofund QuantERA II (agreement number: UMO-2023/05/Y/ST2/00140).
Project website: https://touqan.eu/.

About us

The Center for Theoretical Physics of the Polish Academy of Sciences (CTP PAS) is a research institute focused on the study of theoretical physics. The CTP is located in Warsaw, Poland, and was founded in 1980.

The CTP PAS conducts research in various fields of physics, including quantum information, space and gravity research, semiconductors, and atomic gases. The Institute's strategy is to employ the strongest scientists, giving them the freedom to conduct their research. This has resulted in the CTP's high standing in Poland, world-class publications (in Nature and Science), a large number of grants (approximately 30 projects), and participation in international consortia. In terms of citations per researcher, CTP PAS ranks among the leading institutions in Polish physics.

The CTP PAS also hosts a number of scientific events, including seminars, workshops, and conferences, which are open to the public. The Institute also creates educational content accessible on its official YouTube channel.

About the role

We are seeking an Adjunct-Postdoc (f/m/x) to join the research group at CTP PAS led by Prof. Michał Oszmaniec.

We are looking for a candidate who holds a recognized doctoral degree obtained no earlier than 1 January 2019 (a person may be employed if they obtained their doctoral degree in the year of employment in the project or within the seven years preceding 1 January of the year of employment in the project). This period may be extended by the time spent, during that period, on documented long-term sick leave or rehabilitation benefits lasting more than 90 days, in connection with incapacity for work. In addition, the period may be extended by the number of months spent on leave related to childcare and the upbringing of children, granted under the rules set out in the Polish Labour Code; in the case of women, it may be extended by 18 months for each child born or adopted, if this method of accounting for career breaks is more favourable. This is in accordance with the guidelines set out in the Annex to the terms and regulations for awarding funds for the implementation of tasks funded or co-funded under international calls organized by the National Science Centre, in multilateral cooperation under UNISONO, adopted by NCN Council Resolution No. 28/2022 of 2 March 2022:

https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2022/uchwala28_2022-zal1.pdf#page=8

The project is carried out within a dynamic and diverse theoretical consortium which, in addition to CTP PAS, includes the Instituto de Física Teórica UAM (Madrid), Universität Tübingen, the University of Hamburg, and the Inria Centre at Lyon.

The TouQan project aims to develop a theoretical understanding of quantum simulators: experimental devices capable of emulating complex quantum systems with a high degree of controllability. By rigorously investigating the range of physical problems that can be reliably simulated using classical and quantum methods, TouQan seeks to elucidate the computational power of quantum simulators, particularly in the context of quantum advantage, where quantum devices outperform their classical counterparts. The project emphasizes innovative approaches to estimating simulation costs, analyzing the effects of hardware noise, and studying the fundamental limitations of classical and quantum simulation, drawing on recent advances in near-term quantum computation. This work is intended to provide a robust theoretical foundation for assessing the capabilities of current and future generations of quantum simulators, thereby addressing significant gaps in our understanding of their computational potential.

The project may offer an opportunity to work on an IBM Quantum computer.

Questions regarding the position or the recruitment process may be addressed to Prof. Michał Oszmaniec (oszmaniec@cft.edu.pl).

If you require reasonable adjustments or a more accessible format in order to apply for this position online, please contact recruitment@cft.edu.pl.

About you

Essential qualifications, experience and knowledge

A doctoral degree obtained no earlier than 1 January 2019.

Essential skills and abilities

A strong background in quantum computing, quantum information theory, and mathematical physics.

Desirable qualifications, experience and knowledge

A basic familiarity with the theory of quantum computational supremacy and with probability theory in high-dimensional spaces would be an additional asset.

What we offer

- A full-time fixed-term employment contract.
- Salary: approximately PLN 12,564 gross per month (approximately PLN 9,600 net per month). The stated amount includes a seniority allowance. In addition, the employee may be entitled to bonuses, awards, or other salary components in accordance with the Remuneration Regulations in force at the Institute. Salary is determined and paid in accordance with the Remuneration Regulations in force at the Institute.
- A scientifically stimulating research environment.
- A friendly and flexible working environment.
- Opportunities to share knowledge and experience.
- Flexible working hours.
- A diverse and inclusive culture in which mutual support, teamwork, and respect are highly valued.
- Subsidized MultiSport card.
- Holiday subsidy.
- Subsidies for nurseries and kindergartens.

We will consider applications for part-time or flexible working arrangements where possible. We encourage you to discuss your flexible working needs during the interview.

How to apply

Applications should be sent to recruitment@cft.edu.pl by **15 June 2026**, with the reference number "**MO/09/2026**" indicated in the subject line.

Required documents:

1. An academic curriculum vitae outlining the course of studies to date and any scientific achievements (publications, participation in research projects, conference presentations), including the following clause: "I consent to the processing of my personal data for the purposes necessary to carry out the recruitment process in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council 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 (GDPR)."

2. A cover letter.
3. A copy of the doctoral diploma or information on the planned date of the doctoral dissertation defence (on the date of signing the contract, the candidate should hold a doctoral diploma).
4. Copies of documents confirming scientific or professional achievements.
5. In addition, the candidate should arrange for two letters of recommendation to be sent by independent senior researchers, providing an assessment of the candidate and their scientific activity to date.
6. A signed personal data protection statement (GDPR clause).

Only selected candidates will be contacted.

How we recruit

We carefully review every submitted application. Those whose experience and competencies align with our needs and requirements are invited to an interview (usually held online).

We stay in touch with candidates throughout the entire process, ensuring that interviews take place in a friendly atmosphere, and providing feedback after the interviews. We approach each candidate individually, also considering the needs of people with disabilities.

We appreciate all feedback received after the recruitment process. It motivates us to improve our recruitment efforts.

Our commitment to Equality, Diversity and Inclusion

The CTP PAS operates in an all-inclusive environment irrespective of personal, physical, or social characteristics. Teamwork is highly valued, individual strengths are recognised and appreciated, and we are committed to advancing the careers of everyone.

Equality, respect, and openness are fundamental values in an academic environment, where diversity is essential. We strive to provide a safe and inclusive space for everyone who is part of our scientific community.

The CTP PAS has regulations for reporting violations of law and protection of whistleblowers.