



Center for Theoretical Physics

Polish Academy of Sciences

Aleja Lotników 32/46, 02-668 Warsaw

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HR EXCELLENCE IN RESEARCH

Warsaw, May 28, 2024

Competition for a student's scholarship at CTP PAS

The Director of the Center for Theoretical Physics PAS invites applications for one **student** stipendship at the CTP PAS, within the project “**Quantum Coherence Activation By Open Systems and Environments**” **QuCABOoSE**, financed by the National Science Center (NCN), grant nr. 2023/05/Y/ST2/00139 (Quant Era). PI of the project is dr hab. Jarek Korbicz.

We are looking for candidates who are students of either undergraduate or graduate studies with solid knowledge of basic quantum mechanics and enthusiasm for a regular scientific work. Knowledge of any of the following topics: **quantum algorithms and protocols, quantum correlations, quantum error correction, quantum open systems** will be an additional advantage. The project is carried on in a dynamic, mixed theoretical-experimental consortium, which, apart from CFT PAN, includes University of Paderborn, Dortmund Technical University, Czech Academy of Sciences in Prague and Italian National Agency for New Technologies (ENEA) in Rome. The main scientific topic of the project is an innovative approach to the role of the environment in quantum algorithms. It combines the theories of quantum correlations and quantum algorithms on one hand, and the dynamics of open quantum systems on the other. The aim of the project is to investigate the possibility of activating quantum correlations through a fully quantum treatment of the environment and to develop novel mechanisms for decoherence suppression/reversal. This is crucial for the development of quantum technologies. There is a possibility to write bachelor's/master's thesis, based on the work done in the project, and a chance to work on the IBMQ quantum computer. The position offered is for a period of one year with the possibility of extension; the earliest date of starting work is **July 2024**. The offered stipend is **PLN 2000/month (net)**.



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The application should include:

1. The scientific CV, including publications (if any), participation in research projects and conferences, etc (with the clause "I agree to the processing of my personal data contained in the application documents")
2. Motivation letter.
3. Signed GDPR clause [attachment].
4. Certificate of student status for bachelor's/master's/integrated master's degree studies.
5. Copies of documents confirming scientific or professional achievements (if any).

The documents should be sent electronically to rekrutacja@cft.edu.pl. **In the title of the e-mails please add the reference number: JK/09/2024.** The recruitment is open until **June 10, 2024**, the results will be announced on **June 17, 2024**.



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Information Clause – Job Recruitment

Information Obligation under the Article 13 of the RODO *:

1. Data Administrator

The administrator who is a deciding entity on how your personal data will be used is the Center for Theoretical Physics PAN represented by the Director with the seat in Warsaw Al. Lotników 32/46. You can contact the Administrator by using one of the contact forms available on the website: : <http://www.cft.edu.pl/>

2. Data Protection Inspector

The Director of the Center for Theoretical Physics of the Polish Academy of Sciences has appointed the Data Protection Inspector (Inspektor Ochrony Danych - IOD) with whom you can contact in all matters relating to your personal data. You can contact the Inspector by sending an email to: iod@cft.edu.pl

3. The Purposes of Processing and the Legal Basis for Processing

Your personal data will be processed for the purpose of running the current recruitment.

The basis for the processing of personal data are the provisions of the Labor Code Act of June 26, 1974 (uniform text: Dz. U. of 2018, item 917) and based on your consent for data processing.

4. The Period of Storage of Personal Data

Your personal data will be kept for the duration of the present recruitment.

5. Data Recipients**

The recipients of your personal data will be only entities authorized to obtain personal data on the basis of the law. Access to your data is provided only to employees authorized by the administrator and associates who must have access to the data to perform their duties.

6. Your Processing Rights

You have the right to access your data and the right to correct it or limit processing, as well as the right to appeal against the processing.

7. The Obligation to Provide Data and the Consequences of not Providing Data

Providing your personal data specified in the Labor Code is obligatory, and for the remaining extent voluntary.

8. The right to make a complaint to the President of the Office for the Protection of Personal Data

When you feel that the processing of personal data violates the provisions of the general regulation on the protection of personal data, you have the right to make a complaint to the President of the Office for the Protection of Personal Data.

Consent to Data Processing

I consent to the processing of my personal data by the Center for Theoretical Physics PAN for the needs of:

☐ Present recruitment.

I provide the data voluntarily and I declare that they are truthful. I got acquainted with the contents of the above information, including information about the purpose and methods of processing personal data and the right to access my data and the right to correct them.

.....
date, signature of the candidate

* Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46 / EC (general regulation on data protection)