

Warsaw, December 06, 2024

OPENING FOR A POST-DOCTORAL POSITION IN QUANTUM INFORMATION IN THE CENTER FOR THEORETICAL PHYSICS PAS

We invite applications for a **postdoctoral fellowship** at the Center for Theoretical Physics of the Polish Academy of Sciences, financed from the **QuantERA II (call 2021)** project '**VERification of quantum Technologies, Applications and Systems**' (**VERIqTAS**) funded by the Polish National Science Centre (ID: 2021/03/Y/ST2/00175). The project leader is **dr hab. Remigiusz Augusiak** (website: <http://raugusiak.weebly.com/>).

Project description

The broad subject of the project is widely-understood verification and certification of quantum resources. There are two main aims. The first one is to characterize quantum resources such as quantum entanglement or non-locality and propose efficient methods of their detection. The second aim is to design certification methods for quantum states, quantum operations etc. in various scenarios typically considered within the field of quantum information such as for instance the device-independent scenario. The research has a fundamental character.

Requirements

- ✓ A PhD degree in theoretical physics or mathematics, obtained in the year of employment in the project or within seven years prior to January 1 of the year of employment.¹,
- ✓ Proven research experience in quantum information,
- ✓ Strong background in the mathematical methods of physics,
- ✓ Familiarity with convex optimization techniques (e.g., SDP, linear programming) will be considered an advantage.

Terms of Employment

- Duration time: **14 months, but no later than March 31, 2026.**
- Monthly revenue: **approx. 8000 PLN net (after taxes)** which is about 1800 euro.

¹ This period may be extended by the time spent on long-term (over 90 days) documented sickness benefits or rehabilitation benefits due to incapacity for work. Additionally, this period may be extended by the number of months spent on leave related to the care and upbringing of children granted under the terms of the Labor Code, and in the case of women - by 18 months for each child born or adopted, if this method of indicating breaks in the academic career is more beneficial.

Required documents

1. **The scientific CV**, including publication list, participation in research projects and conferences (with the clause *"I agree to the processing of my personal data contained in the application documents"*).
2. **Motivation letter**, with a brief description of the Candidate's scientific interests and future research plans.
3. **A copy of the PhD diploma**, or statement from the PhD advisor on the planned date of defense (the PhD should be awarded before the post-doc contract starting date).
4. The candidate should organize **two recommendation letters** from senior researchers, evaluating the candidate's scientific qualifications and achievements. The letters should be separately sent to the email address given below.
5. **A signed GDPR** consent form (template provided below).

Application Submission

The documents should be sent electronically to rekrutacja@cft.edu.pl, by **January 7, 2025** with obligatory consent to process the personal data (see below). In the e-mail's title please add the reference number: **RA/24/2024**.

For further information, contact the project leader at augusiak@cft.edu.pl

Selection Process

Shortlisted candidates will be invited for an online interview. The results will be communicated via email. The final decision is expected to be announced in **January 2025**, subject to candidate availability and interview schedules.

Start Date

The expected start date is **January/February 2025**, with flexibility to agree on an alternative date.

The CTP PAS adheres to the Internal Regulations for Reporting Violations and the procedures for handling such reports. These regulations can be found on the Institute's website.

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 the present recruitment:

Center for Theoretical Physics

Polish Academy of Sciences

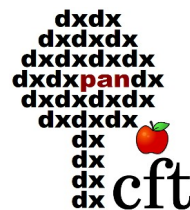
Aleja Lotników 32/46, 02-668 Warsaw

Tel. (+48 22) 847 09 20, Fax/Tel: (+48 22) 843 13 69

E-mail: cft@cft.edu.pl, NIP: 525-000-92-81, REGON: 000844815



HR EXCELLENCE IN RESEARCH



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.