JOB OFFER

Position in the project:	Master-student
Scientific discipline:	Theoretical Physics
Job type (employment contract/stipend):	scholarship
Number of job offers:	1
Remuneration/stipend amount/month *("X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"):*	**2000 PLN** scholarship (**430 EUR**)
Position starts on:	August 2022 (starting date is flexible)
Maximum period of contract/stipend agreement:	30.09.2023 r.
Institution:	Center for Theoretical Physics, Polish Academy of Sciences
Project leader:	Prof. dr hab. Marek Kuś / Group leader dr hab. Michał Oszmaniec
Project title:	Near-term quantum computers: challenges, optimal implementations and applications *Project is carried out within the Team-Net programme of the Foundation for Polish Science*
Project description:	Quantum computers promise savings in time and effort necessary to perform certain computational tasks, which themselves are of great practical relevance for many branches of science and industry. Building a working quantum computer is a notoriously difficult task due to the destructive influence of noise and decoherence affecting large-scale quantum systems. Therefore, one expects that in the near future only devices consisting of a limited number of

	imperfect qubits (basic units of quantum computers) will be available. Our project aims to characterize the computational power and to investigate possible practical applications of such devices. To realize these ambitious goals, we will form a network of closely collaborating research groups working on cutting-edge aspects of quantum computing: quantum machine learning, control of quantum systems, quantum error-correction and identification resources responsible for quantum speedup. Website of the project: www.nisq.pl Website of the group of Michał Oszmaniec: www.quantin.pl
Key responsibilities include:	1. Conducting research 2. Writing scientific papers. 3. Preparation of Master thesis dissertation 4. Participation in scientific conferences
Profile of candidates/requirements:	1. Having a status of a student in Poland 2. Interest in the practical or mathematical aspects of quantum computing 3. At least basic knowledge of quantum information theory or quantum computing 4. Optionally (not all skills are required at the same time): a. programming experience (C ++, Python or Matlab), b. experience in programming on quantum computers (Qiskit, Forest) c. basic knowledge of mathematical physics (e.g. representation theory of Lie groups and Lie algebras, operator theory)
Required documents:	1. Curriculum vitae; 2. Transcript of grades 3. Motivation letter 4. Research record with a list of publications, and list of research projects; PDF files of the most important paper of the candidates; a list of talks at conferences and workshops, and a list of academic prizes and awards; 5. Signed RODO clause.
We offer:	Scholarship in vivid and active scientific community working on key challenges of quantum computing Scientific and organizational support; Basic equipment and core facilities. **Access to real quantum hardware via devices**

	offered by IBM/Rigetti/ IONQ **The Institute does not provide accommodation.**
Please submit the following documents to:	Submissions are to be received electronically (only pdf files) at the email rekrutacja@cft.edu.pl by the closing date of **July 21, 2022.** In your e-mail's subject please add the reference number: **MK/12/2022.**
Application deadline:	12:00 CET 21.07.2021
For more details about the position please visit (website/webpage address):	An interview is expected. Selection committee reserves the right to invite for the interviews only preselected candidates. The interviews will be held in the second half of July (the confirmation will be sent to the prospect candidates shortly after the application deadline). The seniority of the candidates will not be preferred by default. Instead, the selection committee we will evaluate the expertise of candidates having in mind their qualifications and achievements at the career stage they are at the moment. We inform you about the possibility of submitting an appeal against a negative result of the recruitment process, which the participant of the recruitment process is entitled to submit within 7 days of receiving the feedback from the recruitment committee.
Euraxess job/stipend offer (in case of PhD, postdoc, leader and young leader positions):	https://euraxess.ec.europa.eu/jobs/803414


European Funds
Smart Growth
Republic of Poland
FNP
Foundation for Polish Science
European Union
European Regional Development Fund

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.

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* 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)