JOB OFFER

Position in the project:	Phd-student
Scientific discipline:	Theoretical Physics
Job type (employment contract/stipend):	scholarship
Number of job offers:	2
Remuneration/stipend amount/month *("X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"):*	**3800 PLN** scholarship (**850 EUR**) **3800 PLN** development costs of a PhD student (**850 EUR**)
Position starts on:	01.11.2019 (precise starting date flexible)
Maximum period of contract/stipend agreement:	4 years
Institution:	Center for Theoretical Physics, Polish Academy of Sciences
Project leader:	Prof. dr hab. Marek Kuś / Group leader dr 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.
Key responsibilities include:	1. Conducting research 2. Writing scientific papers. 3. Preparation of PhD dissertation

	4. Participation in scientific conferences

Profile of candidates/requirements:	1. Having a status of a PhD student in Poland
	2. Interest in the practical and mathematical aspects of quantum computing
	3. At least basic knowledge in the field of quantum information theory and 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)
	
	Additional advantage will be the confirmation of above by authorship or co-authorship of publications from the above-mentioned fields;

Required documents:	1. Curriculum vitae; 2. Transcript of academic 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. Personal questionnaire form (should be downloaded from CTP web site) 6. Names and contact details (e-mail addresses) of at least one senior researcher who may act as reference for the candidate (The candidate is expected to contact the reference and ask them to email reference letter to *rekrutacja@cft.edu.pl* The letter must be sent before the deadline.).
We offer:	Scholarships from 1 October 2019 till 30 September 2023 (48 months), subject to periodical evaluations. Scientific and organizational support; Basic equipment and core facilities. **The Institute does not provide accommodation.**
Please submit the following documents to:	Submit by email to email address: **rekrutacja@cft.edu.pl** Please write in the title of the email "MK/10/2019"
Application deadline:	12:00 CEST 15.10.2019

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 October (the confirmation will be sent to the prospect candidates shortly after the application deadline).
Euraxess job/stipend offer (in case of PhD, postdoc, leader and young leader positions):	https://euraxess.ec.europa.eu/jobs/445662

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)