JOB OFFER

Position in the project:	Group Leader of the project
Scientific discipline:	Physics
Job type (employment contract/stipend):	Full-time employment
Number of job offers:	1
Remuneration/stipend amount/month:	~ 15 400 PLN / month (gross)
Position starts on:	1 October 2020
Maximum period of contract/stipend agreement:	36 months (till 30 Septembre 2023)
Institution:	Jagiellonian University, Faculty of Physics, Astronomy and Applied Computer Science
Project leader:	Prof. dr hab. Marek Kuś
Project title:	Near-term quantum computers, optimal implementations and applicatins **Project is carried out within the TEAM-NET programme of the Foundation for Polish Science.**
Project description:	**The project** We are looking for a group leader in a project funded by Foundation for Polish Science run by a consortium of three Polish scientific institutions: Center for Theoretical Physics of the Polish Academy of Sciences (CTP PAS, the leader of the consortium), Jagiellonian University (JU), and Institute of Theoretical and Applied Informatics of the Polish Academy of Sciences (ITAI PAS). Professor Marek Kuś from CTP PAS is the leader of the entire project. The consortium runs three research groups: Quantum Computing Group (leader Michał Oszmaniec, CTP PAS), Quantum Machine Learning Group (leader Zbigniew Puchała, ITAI PAS) and Quantum Resources Group (leader Kamil Korzekwa, JU). The call concerns the position of the leader of the fourth group working on Quantum Error Correction at the JU in Kraków. The part of the consortium established at the Jagiellonian University is led by Karol Życzkowski. **Quantum Error Correction Group** The broad aim of the group would be to develop new techniques to cope with noise and imperfections affecting quantum systems and to render processes useful for quantum computing and other applications. Furthermore, the goal is to advance the theory of quantum error correction including the foundational and geometric aspects of quantum information processing in realistic systems interacting with the environment. The applicant is welcome to add other goals, provided they fit into the broad topic of the group, and general aims of the project.
Key responsibilities include:	1. Planning, execution, and management of a research program. 2. Training of the group in quantum information processing; coordination of the work of the group. 3. Mentoring of PhD students and post-doctoral scientists. 4. Development of a Master and a PhD training program. 5. Research leadership involving expansion to new fields of quantum information processing and active role in setting up of international research networks. 6. Active procurement of new research grants from external sources (Flagship, ERC, National Science Centre, etc.).

	7. Bearing the responsibility for professional integrity of the group.
We offer:	1. Full time employment from 1 October 2020 till 30 September 2023 (36 months), subject to periodical evaluations, monthly gross salary up to 15 400 PLN (depending on qualifications).
	2. Chance and challenge to create your own team.
	3. Funds guaranteed for the entire period of the project (36 months) to set up a team including: - a senior post-doctoral researcher (monthly gross salary up to 11 500 PLN); - a junior post-doctoral researcher (monthly gross salary up to 7 7000 PLN); - two PhD students positions (each with a monthly gross salary 6 000 PLN); - funds for master students (2 000 PLN scholarship per month);
	4. Scientific and organizational support.
	5. Basic equipment (with additional funds for necessary supplements) and core facilities.
	6. Travel funds.
Profile of candidates/requirements:	A candidate for a Leader of a Research Group should be a scientist of global recognition in his/her field, with an outstanding scientific achievements, and an experience in managing of a research group. We are looking for an exceptionally motivated candidate with at least a PhD degree in physics, mathematics or computer science, with a proven track record, solid knowledge and working experience in quantum information or related fields. The applicant should have the ability to independently run research projects and supervise graduate students (preferably PI experience in grants, and experience in supervising). Experience in cooperating with industrial partners or in patenting would be highly welcome.
Required documents:	1. Filled in recruitment form (basic formal information).
	2. Curriculum vitae.
	3. Research record with a list of publications, and list of research projects (especially those in which the candidate was the principal investigator); PDF files of five most important papers (or just hyperlinks, in the case of open access publications); a list of invited talks at conferences and workshops, and a list of academic prizes and awards.
	4. Letter of motivation (including description of immediate and, separately, long-term research plans, innovation potential and possible prospects to establish industrial connection, all discussed in relation with the research aims of the project) – up to five pages.
	5. Documents confirming the scientific degrees (copies of Master, PhD, habilitation diplomas and professorial nominations)
Please submit the following documents to:	agata.hadasz@uj.edu.pl
Application deadline:	**31 August 2020**
For more details about the position contact:	www.nisq.eu
General rules of the recruitment process	Applications should be submitted by e-mail: agata.hadasz@uj.edu.pl no later than August 31th, 2020. The decision will be made by the Scientific and Economic Committee (SEC) of the Consortium within six weeks from the date of closing the call. An interview is expected. SEC reserves the right to invite for the interview only pre-selected candidates. SEC's decision is final and is not subject to appeal. However, it must be approved by Foundation for Polish Science. SEC reserves the right to close the competition without selecting the candidate

	In the case of resignation of a candidate recommended for the position of a Leader of Research Group, or failure to receive the Foundation for Polish Science's approval, SEC is re-assembled to re-evaluate the candidates earlier short listed for the interview, or may ask to publish a new call for the position.
Euraxess job offer (in case of PhD, postdoc, leader and young leader positions):	https://euraxess.ec.europa.eu/jobs/545916

Please include in your offer: "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."