

Job Information

Organisation/Company:

Institute of Physics Slovak Academy of Sciences

Department:

Department of Complex Physical Systems

Research Field(s):

Physics » Quantum mechanics

Computer science » Other

Researcher Profile:

Recognised Researcher (R2)

Established Researcher (R3)

Positions:

Postdoc Positions

Country:

Slovakia

Application Deadline:

27 Mar 2025 - 12:00 (Europe/Bratislava)

Type of Contract:

Temporary

Job Status:

Full-time

Hours Per Week:

37,5

Offer Starting Date:

1 Sep 2025

Is the job funded through the EU Research Framework Programme?

Other EU programme

Is the Job related to staff position within a Research Infrastructure?

No

Offer Description:

For the FAQCI project implemented at the Department of Complex Physical Systems we seek a highly motivated postdoctoral researcher on R2 or R3 level of experience on quantum computation and/or machine learning.

Quantum computers are expected to provide exponentially growing power thanks to their use of quantum effects and indications of so-called quantum advantage have been demonstrated. Unfortunately, the current capabilities of quantum computers are still rather limited by numerous issues and their applicability is limited on hybrid algorithms, where small quantum subroutines are implemented as a part of a large classical computation.

We seek a candidate that will be responsible for developing theoretical concepts of utilization of early stage quantum computers, as well as application of the quantum computers available online. He or she will cooperate with PhD students and other members of the group.

The salary starts at 2000 € per month and the position is offered for 18 months with possible long-term extension.

Where to apply:***E-mail***

martin.plesch@savba.sk

Requirements:***Research Field:***

Physics » Quantum mechanics

Computer science » Other

Education Level

PhD or equivalent

Skills/Qualifications:

The candidate is expected to have good proficiency in Python and have experience either with Qiskit or machine learning experience.

Languages:

ENGLISH

Level: Good

Years of Research Experience:

1 - 4 years.

Additional Information:

Benefits:

Full social and health insurance.

Subsidized accommodation and food coupons.

Extended vacation for up to 9 weeks per year.

Selection process:

First round of selection will be based on CV. Successful candidates will be invited for an online interview that will be performed on the level of department.

Work Location(s):

Company/Institute:

Fyzikálny ústav SAV
(Institute of Physics SAS)

Street:

Dúbravská cesta 9

Postal Code:

845 11

City:

Bratislava

Country:

Slovakia

Number of offers available

1

Contact:

Website:

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