

SCIENCE BRINGS NATIONS TOGETHER



Postdoctoral Programme in Software Development

12-month contract, renewable for another max. 24 months

Your mission

The main objective of this position is to prepare a software framework for the online data filter for the SPD experiment. The goal of the experiment is to study the spin structure of the proton and deuteron in proton-proton and deuteron-deuteron collisions in the SPD detector of the NICA collider at JINR within the international SPD collaboration. The online data filter is a keystone part of the SPD data processing chain aimed at the fast event reconstruction and and event selection of data in realtime. The online filter should be able to cope with the incoming data rate up to 20 GB/s.

Your tasks

The work includes the following tasks:

- Design and development of the online event filter software framework.
- Development and implementation of the fast event reconstruction algorithms.
- Design and implementation of the interface to machine learning tools.
- Performance studies and tests of the online filter prototype.

Constraints and risks

Depending on your citizenship, you may need to obtain a visa and this process can last several months. JINR offers all the necessary support for obtaining the entry permit for the Russian Federation.

Your profile

- Highly motivated candidate with a PhD (obtained less than 5 years ago) in particle or highenergy physics.
- Age under 40, have not had more than 3 temporary positions.
- Strong background in in HEP computing.



- Practical experience in the data processing in particle physics, preferably in the trigger or offline computing design and development.
- As an international intergovernmental research organization, we are particularly keen to ensure that we also attract applicants from outside of Russia. You must have good knowledge of English and be willing to learn Russian (a language course will be provided by JINR).

What we offer

High quality of life

Called the "Island of Stability", the city of Dubna is ideally located on the bank of Europe's largest waterway — the Volga River (only 2.5 hours from Moscow by train or bus and 1.5 hours by car from Sheremetyevo International Airport). It is important for us that our employees quickly and easily adapt to the new living conditions and have a healthy work-life balance. Therefore, we offer accommodation in comfortable guest-house rooms (for singles), or fully furnished flats owned by JINR, and annual paid leave.

Prospects

We guarantee you a 12-months postdoctoral contract, renewable for another max. 24 months (36 month in total), in a multicultural scientific environment.

Remuneration

2300 USD per month, paid in Russian rubles at the planned exchange rate (forecasted year-average), which is adopted with the JINR budget for the current year. In 2023, the exchange rate is 69.2 Russian rubles per 1 USD.

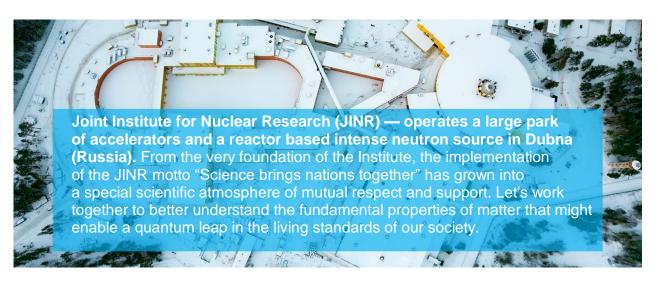
Income tax of 13% is applied. The employer shall pay no pension insurance.

Benefits

We offer considerable social benefits: settling-in allowance, air fare (except for family members), free local health insurance for you and your family members, relocation assistance (under certain conditions), free public school or kindergarten attendance for children. We also offer free Russian courses and subsidies for the use of JINR sports infrastructure (Olympic swimming pool, stadium, gym, etc.), as well as access to a variety of cultural activities.

Apply now





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