General information

Reference: FLNP JINR-PostDoc-2019-01
Workplace : Frank Laboratory of Neutron Physics JINR (FLNP JINR)
Date of publication : November 1st, 2019
Type of Contract : research fellow
Contract Period : 12 – 36 months taking into consideration the results achieved during the 12 months
Expected date of employment : 15 May 2020
Proportion of work : Full time
Remuneration : approximately 30000 USD gross per year payed in rubles. Final amount will be commensurate with qualifications and experience. 13% income tax is applied in accordance with the RF regulations. Social package: see additional information bellow
Desired level of education: PhD
Experience required 2 to 5 years of postdoctoral experience.

Missions

The IBR-2 pulsed fast reactor can be rightly referred to as a record-breaking neutron source both as to the intensity of neutron flux in pulse and as to the engineering solutions allowing us to achieve it. IBR-2 is a fast pulsed reactor with mechanical modulation of reactivity. A User Programme based on 13 instruments is established and scientists from about 25 countries already benefited of it. The mission of the research fellow is to be active participant in the development and operation of the inelastic neutron scattering spectrometers at the IBR-2 reactor and to perform own scientific research using inelastic neutron scattering technique.

Activities

Participation in the development and construction of new inelastic neutron scattering instruments in direct and inverted geometry at the IBR-2 reactor. Assistance with realization of scientific experiments at the NERA and DIN-2PI spectrometers as a local contact in the framework of the User Programme, performing the own scientific research programme at these spectrometers.
Possible supervision of students and internships.

Skills

The candidate should have a PhD in condensed matter physics or materials science and proven experience on running experiments using inelastic neutron scattering methods. General software knowledge and basic programming skills. English proficiency.

Work Context

WORKPLACE: The job will develop in close collaboration with the NERA group at the Frank Laboratory of Neutron Physics, Department of Neutron Investigations of Condensed Matter. The research activities will be generally performed at the IBR-2 reactor neutron scattering instruments. The group's staff includes 7 PhD. The Department's total staff is 104.

Constraints and risks

The postdoctoral fellow will be expected to undertake international travel. During experiments shift work and working on weekends may be necessary. The experiments will be carried out at IBR-2 reactor whereby the necessary authorizations will be attributed following a yearly medical examination arranged by the laboratory.

Additional Information

Applications should include a detailed CV, a brief statement of research interests, list of publications and at least two letters of reference forwarded to Dr. Otilia Ana Culicov culicov@nf.jinr.ru before February 1st 2020.

Social package offered by JINR:

- The employer offers free health insurance covering medical service in the frame of the Russian compulsory medical insurance system.
- The employer will pay no pension insurance.
- The employer can offer accommodation in its own apartments (one-, two- or three-room flat depending on the number of family members) in the limits of availability and the laboratory can partly offset the rent expenses.
- Half price access to the JINR Olympic-size swimming pool and preferential access to the sport infrastructure of JINR.

Short-listed candidates will be invited to an interview, remotely, or in person.