

Accelerator Engineer (beam injection/extraction systems)

General information

Place of employment: Laboratory of High Energy Physics, JINR, Dubna

Published Date: 22 March 2021

Duration of the contract: 2 years (with the possibility of extension)

Deadline for application: 01 July 2021

Share of work: full time, 8h

Remuneration: 800,000 – 2,700,000 roubles per year (depending on experience, qualifications and interview results), income tax of 13% is applied (regulations of the Russian Federation); employer provides family insurance and helps with housing provision

Desired level of education: higher professional education

Required experience: 5 years in research or in engineering

Job description

The successful candidate will be a member of the Accelerator division at VBLHEP JINR. The division work is focused on the development of the NICA accelerator facility. ***The engineer-physicist will be involved in the development of pulsed beam injection/extraction systems in synchrotrons.***

Skills

Experience in the development and design of pulse devices: kicker and septum magnets with electromagnetic shielding. Experience in the development, construction and operation of pulse generators (modulators) and their components (forming lines, pulse transformers, etc.). Experience in working with high-voltage vacuum electronics and semiconductor switches (thyratrons, thyristors, transistors).

Proficiency in English is essential. Knowledge of Russian will be an advantage.

Constraints and risks

Shift work and weekend work may be necessary. The work will be carried out at accelerator facilities whereby the necessary authorizations will be issued following the annual medical examination arranged by the employer.

How to apply

Applicants should submit a detailed CV, a summary of research interests, a list of publications, highlighting representative publications, and arrange to have at least two reference letters sent by the referees to the email address below. These documents should be addressed to Prof. V.D. Kekelidze and sent to Anna Rassadova, rassadova@jinr.ru.

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