

Engineer-operator of accelerator complex

General information

International intergovernmental scientific research organization Joint Institute for Nuclear Research, Dubna.

The Laboratory of High Energy Physics JINR is developing a subdivision, the main task of which is the operation of the new accelerator complex NICA.

Staff members who would like to become a part of a large team of physicists and engineers are being recruited. The accelerator complex NICA (Nuclotron based Ion Collider fAility), being one of the priority megascience projects in Russia, includes two linear, two ring superconducting accelerators and a collider. It will occupy an important niche in the world accelerator infrastructure for fundamental research in relativistic nuclear physics for the next decades.

Job Duties

The duties of the **engineer-operator** include the following primary functions, which alternate on a weekly basis during regular operation of the complex:

- (1) shift work in the main control room to control and maintain the operation of the accelerator complex;
- (2) work on engineering or scientific projects for the development of the complex.

Professional qualification requirements

Higher Technical Education. Applicants from university graduates up to and including PhDs are considered. Basic knowledge of accelerator physics and engineering is required.

Full admission to work in the control room is granted after training, including on-site training, and passing all required exams.

An important requirement is the desire and ability to learn.

Additional skills

Knowledge of SCADA-systems, experience in programming industrial controllers, writing programs in Python, JavaScript, C++, control and dispatching of technically complex objects is welcomed.

English language skills are preferred.

Working conditions

Respectable salary according to the qualification (determined by the results of the interview).

About half of the working time per year involves shifts around the clock. The second half is a daytime work schedule: 5 working days of 8 hours with two days off.

There is an opportunity and time for scientific/engineering work, including the preparation of scientific publications, participation in workshops and conferences, and thesis defense.

Social benefits include VHI, discounted membership of the Institute's sports facilities and sanatorium vouchers. Nonresidents are provided assistance in housing provision.

The operation of the accelerator complex provides an opportunity to be at the center of modern science, to see in practice the operation of all collider systems, to gain broad knowledge in accelerator physics and technology, to communicate with the best specialists in this field and to become one of them.

How to apply

The application should include a detailed CV, a summary of research interests, a list of field-specific publications, and letters of recommendation are preferred.

These documents should be sent to Valery Lebedev: valebedev@jinr.ru