

SPIN PHYSICS AT NICA SPD

General information

Workplace : JINR, Dzhelepov laboratory of Nuclear Problems

Contract Period : 3 years

Expected date of employment : 1 June, 2020

Proportion of work : Full time

Remuneration : 35000 Euro per year; social package: refund of the apartment rent and family insurance; 13% income tax is applied in accordance with the RF regulations.

Required level of education: PhD in Particle Physics

Research experience after awarding of PhD degree: at least 5 years

JOB DESCRIPTION: NICA (Nuclotron-based Ion Collider fAcility, <http://nica.jinr.ru>) is a new accelerator complex being built in JINR. A general purpose Spin Physics Detector (SPD) will be situated at one of the interaction points of the collider. The SPD physics program with longitudinally and transversely polarised proton and deuteron beams focuses on the study of polarised gluon content in nucleon in the reactions of charmonia, open charm and prompt photon production and other spin-dependent phenomena. The successful applicant will be a member of the SPD team and will participate in the development of the physics programme of the experiment, detector optimisation and preparation of the Conceptual and Technical Design Reports.

Skills

Experience in spin physics. Experience in Monte Carlo simulation and data analysis at such experiments like PHENIX and STAR at RHIC. Good command of English is essential. Knowledge of Russian would help in the local social environment.

Constraints and risks

During experiments, shift work and working on weekends may be necessary. The experiments will be carried out at accelerator facilities where necessary access authorizations will be needed based on a yearly medical examination arranged by the institute.

To apply

Interested candidates should send a letter of application, CV, list of relevant publications and arrange for at least two letters of reference sent via e-mail to:

Dr. A. V. Guskov, leader of the SPD project

avg@jinr.ru

with a copy to

Prof. V.A. Bednyakov, DLNP director

bedny@jinr.ru

Short-listed candidates will be invited to an interview, remotely, or in person. before 1st of May 2020.