



Krakow, February 26, 2024


The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences

announces a competition for the position

ADIUNKT /post-doc/ - AP-NZ24/24

in Department of Nuclear Reactions and Hadronic Processes /NZ24/

Division of Nuclear Physics and Strong Interactions /NO2/.

Deadline for application:	Expected term of employment:	Type of contract:	Number of positions:	Application address:
May 15th 2024	Second half of 2024 for define period up to 33 Months	contract of employment, full-time at IFJ PAN as the only place of work	1	 jobs@ifj.edu.pl

<https://www.ifj.edu.pl/en/career/recruitment-procedures.php>

I. Keywords:

Experimental physicist, detector's design.

II. Description:

A person employed as an adjunct (post-doc) for a define period up to 33 Months at the Department of Nuclear Reactions and Hadronic Processes - NZ24 at IFJ PAN will be obliged to participate in work on research topics and projects implemented and planned for the nearest period at the NZ24 Department.

The basic tasks of the employed person will include: preparation of the conceptual design of a Cosmic-Veto detector for the experiment searching for neutron-antineutron oscillations at European Spallation Source (ESS) in Lund; implementation of this detector to the model for Monte-Carlo simulation, currently under development; participation in the design, construction and performance tests of the detector prototype; participation in the construction of the final detector and its integration with other components of the detection system; analysis of the data obtained on each stage of the work.

The employed person will also be obliged to disseminate the results of research in the form of publications in leading scientific journals indexed in the JCR and speeches during seminars and conferences, including international ones. This person will also be obliged to apply for external funding for research.

III. Required qualifications:

- doctor degree in physical sciences or related disciplines: technical physics, informatics,
- qualifications necessary to carry out research tasks carried out at NZ24,
- knowledge of the research topics in the field of nuclear and particle physics,
- experience in experimental physics including commonly used particle detection techniques,
- good knowledge of methods and programs commonly used in experimental physics (ROOT, MATHLAB, etc...), ability to create own programming tools and their integration with existing software written in C++ in Linux environment,
- ability to work in a team, communication skills,
- very good knowledge of spoken and written English.

Welcome:

- knowledge of at least one of Monte-Carlo simulation packages (GEANT4, FLUKA, etc...).

IV. Salary offered

A person employed for a fixed period up-to 33 Months as an adjunct (post-doc) will receive a monthly basic remuneration from **PLN 5,500.00 gross**, which depends on the candidate's achievements. The total amount of remuneration will be increased by **allowances** for: length of service and working under conditions of exposure to ionizing radiation (if applicable).

V. General information

Detailed rules of the competition are specified in the Terms and Conditions of Recruitment of Adjuncts and Research Assistants adopted by the IFJ PAN Scientific Council on April 12, 2021 and accessible at:

<https://www.ifj.edu.pl/en/career/documents/terms-and-conditions-adjunct-research-assistant.pdf>

Candidates applying for employment in IFJ PAN are required to contact the head of the N224 Department, prof. IFJ Adam Kozela at an early stage, who may ask the candidate to deliver a seminar before submitting the application and then the Head of the Department submits his/her short opinion with the recommendation or lack of recommendation for employment to the Competition Committee.

VI. Required documents

The list of required documents is included in the rules of the competition:

<https://www.ifj.edu.pl/en/career/documents/terms-and-conditions-adjunct-research-assistant.pdf>

VII. Deadline for application submission

- Applications with attachments shall be sent by e-mail by **May 15th, 2024** to the following address: jobs@ifj.edu.pl with the note „**Adiunkt/post-doc/AP-N224/24**”
- The employment recommendation from the two referees shall be sent directly, bypassing the candidate, to the following e-mail address: jobs@ifj.edu.pl

VIII. Conclusion of the competition

- Interviews with candidates shall take place from **June 10th, to June 12th, 2024**. Candidates qualified for interviews shall be notified by e-mail about the exact date of the Interview **by May 24th, 2024**. During the interview the candidate shall be required to give a presentation, **stored on a pen drive**, lasting 10 minutes at maximum which shall presenting candidate's most important achievement,
- The competition shall be concluded **by June 28th, 2024**.
- Each candidate shall be notified by e-mail about the results of the competition.
- **The final decision on employing and salary shall be taken by IFJ PAN Director.**

IX. Contact

All questions can be sent by e-mail to the IFJ PAN Employment Department (jobs@ifj.edu.pl).