




Kraków, February 26, 2024

The Henryk Niewodniczański Institute of Nuclear Physics
Polish Academy of Sciences
announces a competition for the position
ADIUNKT /post-doc/ - AP-NZ11/24
in Department of Belle II experiment /NZ11/
Division of Particle and Astroparticle Physics /NO1/.

Deadline for application :	Expected term of employment:	Type of contract:	Number of positions:	Application address:
May 15th 2024	Second half of 2024 for a fixed 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:

Belle II, Super-KEKB, particle physics, High Energy Physics, B physics.

II. Description:

The Institute of Nuclear Physics is seeking to fill a position of an adjunct (post-doc) for a defined period up to 33 months at the Department of Belle II experiment - NZ11 at IFJ PAN. The successful candidate will conduct research and collaborate with the group on various aspects of particle physics, particularly focusing on B physics. The research scope includes studying B to charm decays, semileptonic B decays, and lepton flavor violation using missing energy reconstruction techniques. The appointed individual will also be involved in detector work, primarily with the Silicon Vertex Detector at Belle II, and participate in upgrade projects for the next vertex detector at Belle II.

Roles and Responsibilities:

1. Conduct research in the field of particle physics, focusing on B physics phenomena.
2. Collaborate with the Belle II experiment department on research projects related to B to charm decays, semileptonic B decays, and lepton flavor violation studies.
3. Participate in detector work, primarily with the Silicon Vertex Detector at Belle II, including maintenance, data analysis, and performance optimization.
4. Contribute to upgrade projects for the next vertex detector at Belle II, involving design, testing, and implementation.
5. Engage in educational activities, such as mentoring students, teaching courses, and disseminating research findings.
6. Effectively communicate research findings through presentations, publications, and collaborations within the scientific community.
7. Stay updated with advancements in the field of high-energy physics and incorporate relevant techniques and methodologies into research projects.
8. The obligation to apply for external funding for research.

This position offers an exciting opportunity to work in a dynamic research environment within the Belle II experiment department and contribute to cutting-edge research in particle physics. Candidates with a strong background in B physics, detector physics, and programming skills are encouraged to apply.

III. Required qualifications:

Applicants must possess a PhD degree in Physics and demonstrate strong research and educational skills. Proficiency in Python and English is required. Additionally, familiarity with cloud environments, Belle II software, and experience in detector physics, particularly with silicon semiconductor detectors, are desirable qualifications.

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 NZ11 Department, prof. Andrzej Bożek 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 employment recommendation 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>

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-NZ11/24**”
- The employment recommendation from the two referees shall be sent directly, bypassing the candidate, to the following e-mail address: jobs@ifj.edu.pl

VII. 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.**

VIII. Contact

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