

INSTITUTION National Centre for Nuclear Research

CITY Warsaw

POSITION Postdoc

DISCIPLINE physical sciences

POSTED 16.02.2026

EXPIRES 17.05.2026

WEBSITE <https://www.ncbj.gov.pl/en/praca/postdoc-bp3492>

KEY WORDS neutrino oscillations, neutrino interactions

DESCRIPTION (field, expectations, comments):

The National Centre for Nuclear Research opens the competition for the position of

### **Postdoc (BP3\_492)**

**Localization:** Pasteura 7, 02-093 Warsaw

#### **Description of tasks:**

- The person hired will be responsible for preparing tools for physics analysis and conducting analysis using data from the Hyper-Kamiokande and T2K neutrino experiments. The planned activities will include, in particular, the use of data from the near and intermediate detectors, as well as the development of software utilizing Markov chains for neutrino oscillation analysis based on Bayesian inference.
- The hired person will also be required to participate in the construction of the detectors (end of 2026 and 2027) and in data taking shifts in Japan, as well as to collaborate in supervising PhD students (as an auxiliary supervisor).

#### **Requirements for the candidate:**

- Internship in experimental high-energy physics (preferably neutrino experiments)
- A PhD degree in physics or a related field.
- Experience working in a large research team.
- Experience in data analysis, statistical interpretation of results, and knowledge of statistical and numerical methods
- Ability to use a variety of tools for data analysis in a large-scale experiment, preparation of publications, planning of analyses and tests.
- Good knowledge of C++ language.

- Fluent in English.

#### **Additional requirements:**

- Knowledge of at least one neutrino interactions generator and neutrino interaction models.
- Experience in Bayesian analysis.

#### **Required documents:**

- Curriculum Vitae;
- A copy of degree diploma;
- A cover letter that explains the motivating factors for considering the position (max. 1 pp);
- A brief description of important scientific achievements and scientific outlook (max. 2 pp);
- Research plans;
- A list of at least two reference persons including their positions and contact details (e-mail address);
- Any other possible documents that might influence the assessment.

#### **We offer:**

- Employment in one of the largest research Institute in Poland;
- Good learning environment. Support of an experienced team;
- External and internal trainings in hard and soft skills as well as participation in conferences;
- A chance to make ones' own mark by participation in the creation of a interesting and ambitious projects;
- Additional annual salary and other social security benefits.

#### **Contact:**

- dr hab. Justyna Łagoda, prof. NCBJ

The application documents in electronic form should be sent to: [Justyna.Lagoda@ncbj.gov.pl](mailto:Justyna.Lagoda@ncbj.gov.pl)

#### **As an attachment to your application please sign & enclose the following declarations:**

*I agree for my personal data included in the application documents to be processed by National Centre for Nuclear Research with its registered office in Otwock, 7 Andrzej Soltan Street, 05-420 Otwock, for a period of 12 months from their submission, in order to carry out future recruitment processes.*



**Others information:**

We reserve the right to contact only selected candidates & the right to inform about the decision to fill the post only to the selected candidate.

At NCBJ there is the internal procedure for the report of breaches of law. Anyone interested in its content can access it at any time on the website: <https://www.ncbj.gov.pl/sites/default/files/prasa/INTERNAL%20NOTIFICATION%20PROCEDURE.pdf>

Information in accordance with Article 13 RODO on the processing of personal data:

1. The Personal Data Controller of your personal data is the National Centre for Nuclear Research (hereinafter referred to as Controller or NCBJ) with its registered office in Otwock, 7 Andrzej Sołtan Street, 05-400 Otwock.
2. Your personal data will be processed for recruitment purposes on the basis of applicable law, including the Labour Code. Data not required by law, provided by you in your documents, will be processed on the basis of your consent. Your consent is given by the transfer of this data.



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*The National Centre for Nuclear Research is awarded by “HR Excellence in Research”. Recruitment is based on OTM-R system (Open, Transparent and Merit-based recruitment practices in Research Performing Organisations).*