

FORMULARZ DLA OGŁOSZENIODAWCÓW

INSTITUTION: Sieć Badawcza Łukasiewicz – PORT Polski Ośrodek Rozwoju Technologii

CITY: Wrocław

STANOWISKO : Postdoctoral Fellow in Neurodegeneration in P4Health- Center of Excellence in Precise Phenotyping and BioDataBanking for Personalized Brain Health K/M

DATE OF ANNOUNCEMENT: **31.07.2026**

DEADLINE FOR APPLICATIONS: **30.08.2026**

LINK TO THE WEBSITE: <https://port.lukasiewicz.gov.pl/>

The Łukasiewicz Research Network – PORT (Polish Centre for Technology Development) is a research institute within the Łukasiewicz Research Network. It focuses on the development of new technologies by conducting research for the needs of and in collaboration with industry. With our team of high-calibre specialists and state-of-the-art infrastructure, we are able to carry out the most advanced scientific research. Our Institute comprises three research centres – the Centre for Life Sciences & Biotechnology, the Centre for Materials Engineering and the Centre for Population Diagnostics – all of which have access to specialist laboratories. This combination enables us to carry out both scientific research and pilot studies for industry in a comprehensive manner.

We are currently seeking candidates for the position of:

Postdoctoral Fellow in Neurodegeneration in P4Health- Center of Excellence in Precise Phenotyping and BioDataBanking for Personalized Brain Health K/M

P4Health: Center of Excellence in Precise Phenotyping and BioDataBanking for Personalised Brain Health.

Project is carried out within the **MAB/IRA** programme of the Foundation for Polish Science.

The **P4Health Centre of Excellence** is an interdisciplinary initiative focused on advancing Predictive, Preventive, Personalized, and Participatory (P4) approaches in health and medicine. Within the IRAP framework, the project's scientific goal is to discover and validate novel therapeutic concepts aimed at counteracting symptoms of brain disorders associated with astrocyte pathology. The applied research programme is designed to deliver a detailed understanding of the mechanisms of astrocyte dysfunction and its impact on neuronal networks, building on the complementary expertise of a team with a strong publication record in reputable journals and proven experience in identifying nervous system pathomechanisms and developing prototype drug candidates. Project outcomes will be protected as intellectual property and will provide a foundation for translation through clinical studies and appropriate commercialisation pathways.

P4Health's key features:

- Interdisciplinary centre advancing P4 approaches in health and medicine
- Applied, mechanism-driven research focused on astrocyte dysfunction and its effects on neuronal networks
- Strong scientific track record demonstrated through high-quality publications and prior discoveries in nervous system pathomechanisms
- Translation-oriented strategy, from concept validation to clinical studies and commercialisation

- Systematic protection and management of intellectual property to support downstream implementation

Position description:

P4Health CoE is seeking an ambitious and motivated Postdoctoral Researcher to join studies investigating astrocytic protein quality control in Alzheimer's disease.

Neurodegenerative diseases (NDDs) are devastating, age-related disorders that, despite substantial research efforts, remain largely incurable. Our work employs cutting-edge approaches to advance understanding of the molecular mechanisms of neurodegeneration, with the ultimate aim of proposing novel therapeutic strategies. In your role, you will use cell reprogramming methods and implement the state-of-the-art human model systems to investigate the origin and progression of the Alzheimer's disease pathology.

The deposition of misfolding-prone proteins is a hallmark of NDDs and consistent evidence points to the dysregulation of protein quality control (PQC) in neurodegenerative pathogenesis. We have previously demonstrated that boosting the PQC can be beneficial in preventing protein misfolding as well as ameliorating neurodegenerative phenotypes (Das, Krzyzosiak et al. 2015, *Science*; Krzyzosiak, Sigurdardottir et al. 2018, *Cell*). Building on these findings, our aim is to systematically investigate the molecular components of PQC pathways and to exploit their potential to modify NDD-associated cellular pathology.

The position is intended for a person holding a doctoral degree for no longer than 5 years. The 5-year period is counted from the year of obtaining the doctoral degree. This period begins with the annual data of obtaining the degree, and ends with the year preceding the completion date, which may occur through a competition. The 5-year period may be extended to include any interrupted periods of research work occurring after obtaining the degree, provided that the interruption lasts no less than 6 months.

Key responsibilities include:

- Developing, implementing, and maintaining human cellular models
- Designing and conducting experiments, as well as analyzing and interpreting data
- Reporting to the group leader
- Drafting research articles and presenting at conferences
- Maintaining high-quality laboratory records
- Communicating and collaborating within the team
- Contributing ideas to address project-related questions
- Actively contributing to a collaborative, interdisciplinary research environment

Profile of candidates/requirements:Essential:

- A PhD in neuroscience, cell biology, molecular biology, biomedical sciences or a related discipline or PhD dissertation due within 3 months of the application date
- Excellent skills in establishing and maintenance of cell culture
- Hands-on experience with molecular biology techniques
- Previous experience in studying neurodegeneration and/or protein quality control
- Ability to work independently and also capability of interacting within a group
- Commitment, creativity and motivation to take on challenges
- Very good work organization skills
- Excellent communication skills in English

- Comfort working in an international research environment

Desirable:

- Hands-on experience in reprogramming of human cells
- Experience with pharmacological and/or genetic approaches
- International training or work experience
- Experience with bioinformatics tools will be a plus

We encourage applications from candidates of all nationalities, genders and backgrounds.

Required documents:

1. CV including list of publication
2. Cover letter including motivation to join P4Health
3. Copy of PhD diploma (or thesis title and expected date of defense)
4. Contact details for two referees
5. Contact information, including e-mail address and phone number
6. The candidates may include additional information or copies of documents/certificates in support of the application

Remuneration: 10000-14000 PLN gross

We offer:

- Full-time employment contract (1,0 FTE)
- Integration into the newly founded P4Health Center of Excellence, with strong institutional support
- Active mentorship
- Participation in international conferences and workshops
- Opportunity to collaborate with an experienced scientific team, with structured support for scientific and career development.
- Possibility to contribute to high-quality scientific publications and to engage in activities supporting the commercialisation of research outcomes.
- Co-financing of private medical care.
- Co-financing of a sports and wellness card.
- Option to enrol in group life insurance.
- Co-financing through the Social Benefits Fund (including holiday and Christmas benefits).
- Work in a modern, green science campus environment.
- Free on-site parking.

If you are interested, please submit your application via the link below:

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=cd93948aec944174820320511c02afc0>

Please be advised that the controller of your personal data is the Network Institute operating under the name Łukasiewicz Research Network – PORT Polish Centre for Technology Development, ul. Stabłowicka 147, 54-066 Wrocław. The data contained in the application documents will be processed for the purposes necessary for the recruitment process and also – if consent is given – for the purposes of future recruitment. We would like to inform you of your right to access and rectify your data, as

well as your right to withdraw consent to the processing of your data, without affecting the processing carried out prior to the withdrawal of consent. The provision of personal data is voluntary. For more information on the protection of personal data: <https://port.lukasiewicz.gov.pl/ochrona-danych/>

Information about candidates who apply for the recruitment process constitutes public information to the extent covered by the requirements specified in the recruitment notice. Information regarding the outcome of the recruitment process, including the job title for which the recruitment was conducted, the first name or first names and surname of the selected candidate and their place of residence within the meaning of the provisions of the Act of 23 April 1964 – Civil Code, as well as the reasons for the selection of the candidate or for not appointing any candidate, will be made public in accordance with the requirements of the Act of 21 February 2019 on the Łukasiewicz Research Network.

Please note that we will only contact successful candidates.