

FORM FOR EMPLOYERS

INSTITUTION Łukasiewicz Research Network – PORT Polish Center for Technology Development

CITY Wrocław

POSITION Senior Specialist – Research Engineer in the Quantitative Virology Research Group

POSTED 29.10.2026

EXPIRES 11.11.2026

WEBSITE <https://port.lukasiewicz.gov.pl/kariera/oferty-pracy/>

mandatory requirements

- Ph.D. in computational science, mathematics, physics or relevant fields.
- At least one first-author peer-reviewed research article.
- Working knowledge of Python; knowing additional programming languages (e.g., R) will be appreciated.
- Anticipating projects related to constructing deep learning-based models and in silico modeling with metagenomics datasets or with population genetics datasets.
- Task-oriented person and a team worker.
- Good communication skills in English (written and spoken).

The candidate must meet the requirements of the NCN project Regulations, in particular by obtaining their doctoral degree in the year of employment in the project or within 7 years prior to 1 January of the year of employment in the project.

This period may be extended by the time spent during that interval on long-term (over 90 days) documented sick leave or on rehabilitation benefits due to incapacity for work. Additionally, it may be extended by the number of months spent on childcare-related leave granted under the Labour Code. In the case of women, this period may also be extended by 18 months for each child born or adopted, if this method of accounting for breaks in the academic career is more favourable.

For more information check: https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2022/uchwala60_2022-zal1.pdf#page=52

The successful applicant will work in an established laboratory and join a collaborative, vibrant, and growing community of researchers in an environment that values creativity and scientific communications in Łukasiewicz–PORT. In our team, we carry on both wet-lab experiments and dry lab bioinformatics analyses. The candidate will join scientific discussions with other team members. Together with the team leader, the candidate will help with training newcomers. Overall, the candidate will have a great opportunity to participate in research on training and gain knowledge and skills for his/her career development. This position offers the potential for contract extension.

job description

The Quantitative Virology Research Group in Łukasiewicz–PORT invites applications for a **postdoctoral** position starting as soon as possible. We are recruiting applicants with broad research interests to work on Big Data, multigenomic studies, and computational modeling.

The candidate will join ongoing projects in our team and perform mathematical/computational modeling. The topics include (1) constructing deep learning-based models to predict the molecular microenvironments of the latent HIV reservoir and (2) profiling the landscapes of enriched antisense RNA *k*-mers across HIV-1 subtypes.

Our laboratory has proposed the presence of distinct molecular microenvironments in the latent HiV reservoir (Chen H. 2026. J Virol 100:e00175-26), which leads to the heterogeneous nature of the reservoir configuration. The candidate will apply an array of “omics” datasets generated in the lab to construct deep learning-based models, enabling the classification and prediction of distinct microenvironments and seek critical predictor attributes in defining distinct microenvironments.

In addition, our lab previously established the streamlined pipeline named the Pathogen Origin Recognition Tool using Enriched *K*-mers (PORT-EK) (<https://github.com/Quantitative-Virology-Research-Group/PORT-EK-version-2>), which is a *k*-mer-based approach, facilitating the comparison of various multigenomic datasets and detecting over-represented genomic regions (i.e., *k*-mers) linked to specific sequences (Wiśniewski and Chen 2025 IMetaOmics PMID: 41675161; Wiśniewski et al. 2026 BioRxiv DOI:10.64898/2026.02.25.707904). The candidate will further reinforce the pipeline to identify enriched *k*-mers using HIV-1 antisense transcripts across subtypes. In parallel, the candidate will work on exploring epidemiological models within the framework of phylodynamics and phylogeography and integrating them with population genetics models. Increasing the performance of integration algorithms and model simulations, and developing machine learning methods for analyzing genomic data.

daily tasks

1. Computational/mathematical modeling and bioinformatic analysis

We offer:

- Full-time employment on the position of Senior Specialist.
- Work in a scientific research organization focused on the implementation of innovative R&D projects.
- Co-financing for private medical care.
- Co-financing for a sports card.
- Possibility to join group life insurance.
- Co-financing under the Social Benefits Fund (for holidays and Christmas).
- Work on the territory of a green science campus.
- Free parking space.
- Additional 10 days of paid leave per year for employees of the research division holding the title PhD.

If you are interested, please apply via the link below:

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=609c31d56a3c4f359fbb92f589ff23fe>

We kindly inform you that the controller of your personal data is Network Institute operating under the name of Łukasiewicz Research Network – PORT Polish Center for Technology Development, Stabłowicka 147, 54-066 Wrocław, Poland. The data contained in job application will be processed for the purposes of the current recruitment process, and – if the consent is given – for the purposes of future recruitment. We kindly inform you about your right to access your data and correct it, as well as your right to withdraw your consent to data processing at any time without the impact on the compliance with the law of the processing performed on the grounds of consent given before withdrawal thereof. Providing personal information is voluntary.

More information on the protection of personal data: <https://port.lukasiewicz.gov.pl/en/data-protection/>

Information about candidates applying for the above role is public information in the scope covered by the requirements specified in the recruitment announcement. Information on the result of the recruitment process, including the job position for which the recruitment was carried out, the name or names and surname of the selected candidate and his place of residence within the meaning of the provisions of the Act of 23 April 1964 – Civil Code as well as the justification of the candidate's selection or not employing any the candidate will be made public in accordance with the Act of February 21, 2019 on the Łukasiewicz Research Network.

We kindly inform you that we will contact only selected candidates.