INSTITUTION: **The Institute of Plant Genetics, Polish Academy of Sciences (IPG PAS)**

CITY: **Poznań**

POSITION: **research assistant**

DISCIPLINE: **agriculture and horticulture**

POSTED: **06.11.2027**

EXPIRES: **30.11.2026**

WEBSITE: **https://www.igr.poznan.pl**

DESCRIPTION:

Project: related to the project **FENG.02.04-IP.04-0025/24, "Integrative multi-omics platform based on high-resolution mass spectrometry for metabolome and microbiome research using machine learning"**

Start date: **01.01.2027**

Research areas: **Bioinformatics**

Type of contract: **full-time, temporary for 4 years**

Salary range: minimum **5000** PLN (gross)

Place of work: **IPG PAS, Poznań, Poland**

Required Qualifications

1. Academic degree in bioinformatics.
2. Theoretical knowledge and practical experience in machine learning, plant data integration, statistical methods based on distances.
3. Demonstrated experience with scripting languages (Python, R). Knowledge of machine learning frameworks (PyTorch, keras) is an advantage.
4. Research experience, including participation in scientific projects and a documented scientific track record (e.g., peer-reviewed publications).
5. Good organizational and time management skills, attention to detail, reliability, strong motivation, and ability to work independently and collaboratively.
6. Good communication skills in English.
7. Knowledge of deep learning on biological data, mass spectrometry, metabolomics, proteomics, chemometrics, or mass spectrometry imaging is an advantage.

Main Responsibilities

1. Development and optimization of bioinformatics/statistical methods and computational pipelines for multiomics data analysis.
2. Processing, quality control, and analysis of high-throughput sequencing and mass spectrometry data, including microbiome and metabolome profiling.
3. Development, implementation, and validation of machine learning and deep learning methods for biological data analysis, including multiomic data from plants and their pathogens.
4. Integration and interpretation of multiomic data (in particular: metabolomic, microbiomic and genomic data), including functional and structural annotation.
5. Visualization of results and dissemination of research findings through scientific publications, conference presentations, and posters.

What we offer

1. A full-time employment contract for the entire duration
2. 36 working days of vacation per year.
3. Excellent career development opportunities and a stimulating international working environment.

Required documents

1. Curriculum Vitae.
2. Complete publication list highlighting articles relevant to the advertised position.
3. Reprint of an article that the candidate considers to be the most important publication
4. Letter of motivation describing the candidate's research activities.
5. Contact information of 2 referees who may be contacted for an opinion about the candidate.
6. Scan or photocopy of degree or diploma.
7. Career break information (if applicable).
8. Experience certificates (if applicable).
9. Consent to the processing of the applicants personal data for the purposes of the selection process.

How to apply

Please send applications in English with all required documents in electronic format, combined in a single file, to: **work@igr.poznan.pl**

Clearly indicate the position for which you are applying in the subject line of the email.
For more information about the project and ongoing research, please visit **www.igr.poznan.pl**. Informal inquiries about the position should be directed to the following email address: **gkoc@igr.poznan.pl**

Selection Process

The documents submitted by applicants will be reviewed by the Selection Committee to determine the applicant's suitability for the position. Potential candidates will be invited for an interview via video conference or by visiting IPG PAS.
Criteria for evaluating candidates to be hired as postdoctoral fellows:

1. Match of the candidate's experience and skills with the proposed area of study
2. Creativity as measured by:
    a. Quality and number of publications, number of citations of the candidate's work (Web of Science Core Collection);
    b. Number of patents/patent applications and/or implementations (if applicable);
    c. Quality and number of research projects and development work led (if applicable).
3. Mobility in their scientific career, including completed scientific internships, change of scientific profile, internships and work in industry.

Announcement of results: As soon as posssible after the deadline.

The application must contain the following statement

"I, the undersigned, give my consent to the processing by the Institute of Plant Genetics, Polish Academy of Sciences (hereinafter referred to as IGR PAN) with headquarters at Strzeszynska 34, 60-479 Poznan, my personal data contained in the submitted competition documentation for the needs necessary in the recruitment process, including to put my name and surname in the information on the results of the recruitment carried out on the Institute's website. I have been informed that consent is voluntary and that I have the right to withdraw my consent at any time, and withdrawal of consent does not affect the lawfulness of the processing that was carried out on its basis before its withdrawal. I have also read the IGR PAN information clause."

ATTENTION: at the stage of the recruitment process, there is no requirement to present documents certified by the apostille clause nor the requirement of nostrification of diplomas (https://nawa.gov.pl/uznawalnosc/informacje-dla-uczelni/nostryfikacja-dyplomow). These requirements must be met if the candidate is accepted.