



KRekBT-2/23

Lublin, 12.07.2023

THE INSTITUTE OF AGROPHYSICS
OF THE POLISH ACADEMY OF SCIENCES IN LUBLIN
IS SEARCHING FOR:

POST-DOC POSITION (f/m)

in the Department of Soil and Plant System

on the research project „Interactions of microgreens and microbiomes as functional regulators of its quality, resistance and shelf-life – a case study for selected herbs (coriander, basil) and vegetables (radish, beet) in response to climate changes” (2022/45/B/NZ9/04254), funded by the National Science Centre within the program OPUS-23

The competition is conducted in accordance with the Regulations on awarding funding for research tasks funded by the National Science Centre as regards research projects (Annex to NCN Council Resolution No 27/2022 of 2 March 2022 amending the Regulations on awarding funding for research tasks funded by the National Science Centre as regards research projects).

1. The scope of research tasks for the POST-DOC position in the Department of Soil and Plant System within the research project „Interactions of microgreens and microbiomes as functional regulators of its quality, resistance and shelf-life – a case study for selected herbs (coriander, basil) and vegetables (radish, beet) in response to climate changes”:

a) active participation in research within the Project, including:

- determination of influence of bacteria and fungi on herbs and vegetables microgreens-microbiome interactions in optimal and drought stress conditions,
- participation in microbiological, biochemical and molecular research,
- performing analysis of gene expression,
- microgreens biometric parameters measurements,
- participation and performing next generation sequencing (NGS) including amplicon and library preparation, purification and quality evaluation of genetic material,
- setting up and conducting phytotron experiments,
- sampling plant material (microgreens), soil, cultivation media, and samples preparation for the study,
- cultivation and characterization of bacteria and fungi within planned research,
- microorganisms isolation from the environment,



- carrying the experiments (e.g. analyses using BIOLOG system, analyses of microgreens microbiome using NGS, RNA-Seq analyses, t-RFLP, qPCR, analyses using holotomographic microscopy Nanolive),
 - data elaboration including bioinformatics, statistics as well as graphical presentation of the results,
- b) participation in the preparation of reports and research documentation,
- c) participation in the promotion of the Project (including national and international conferences, and preparation of scientific papers in English).

2. Obligatory Requirements:

- a) PhD in agricultural sciences, biological sciences or related sciences,
- b) practical experience in molecular biology techniques use confirmed by PhD thesis and research articles,
- c) experience in next generation sequencing and operating BIOLOG system confirmed by research articles,
- d) working knowledge of R statistical software,
- e) the ability to develop and perform bioinformatics pipelines for the next generation sequencing results of molecular markers for bacteria and fungi,
- f) knowledge of the English language allowing to study freely professional literature as well as to prepare co-authored scientific papers,
- g) authorship or co-authorship of at least 5 scientific papers published in journals with IF,
- h) awarded a PhD degree within 7 years before 1st January of the year of employment in the project,
- i) conscientiousness, accuracy, and ability to complete tasks in a timely manner,
- j) communication skills, as well as willingness and openness to work as part of a team.

PLEASE BE INFORMED, that according to the competition regulations, YOU can be employed at a POST-DOC position only if YOU meet the following conditions:

- **your PhD degree has been awarded by another institution than the Institute or you have completed a continuous and evidenced post-doctoral fellowship of at least 10 months in another institution than the Institute in another country than the one in which you have been conferred a PhD degree;**
- **you will be employed for a period of at least 6 months;**
- **you did not have the Project principal investigator as your research supervisor or auxiliary**



supervisor of your PhD dissertation;

- at the time of receiving remuneration you will not be receiving any other remuneration paid from the funds granted to research projects under NCN calls under the heading of direct costs;
- in the period of receiving the remuneration you will be receiving no remuneration from another employer pursuant to an employment contract, including an employer with registered office outside of Poland.

3. It would be nice if YOU additionally have:

experience in plant cultivation.

4. We offer:

- a) gross monthly remuneration of around PLN 8,000.00,
- b) working with the Institute with the highest rank for research units according to the evaluation of the Ministry of Science and Higher Education (A+ rank), in the implementation of an interesting scientific project funded by the National Science Centre,
- c) access to modern infrastructure for R&D,
- d) supervision of experienced researchers,
- e) opportunities for development and upgrading professional skills.

4. Required documents:

- a) Curriculum Vitae with information regarding research skills and prior experience in science and research (including list of publications and other research achievements) with the following clause:

*„I allow my personal data stated in the abovementioned applications to be processed for the purpose of the recruitment by **the Institute of Agrophysics of the Polish Academy of Sciences** (20-290 Lublin, ul. Doświadczalna 4), in accordance with the General Data Protection Regulation (EU) 2016/679.“**

- b) cover letter (max. 1 page of A4 typewritten text);
- c) scan of the PhD diploma;
- d) declaration of availability to work in the Project from 01.10.2023;
- e) declaration that IA PAS will be the **only** place of employment during realization of the Project,



please send **in electronic form via our Recruitment System by 21.07.2023:**

<https://career.ipan.lublin.pl/en/announcements/>

We kindly inform that we contact only chosen candidates. Applications that are incomplete, submitted after the deadline or in the different form than required will not be processed.

We also reserve the right to close the recruitment process before the deadline indicated above.

*) Information clause on personal data is available on the following website:

<http://www.ipan.lublin.pl/wp-content/uploads/2019/02/information-clause-IA-PAS.pdf>