

KRekBT-.2/24

Lublin, 19.08.2024 r.

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

POST-DOC POSITION (f/m)

in the LABORATORY OF MICROALGAE BIOTECHNOLOGY

on the research project „*Metabolism of unicellular algae in the presence of bacterial exopolymers and their potential for biodegradation/bioaccumulation of emerging contaminants*” (2023/51/B/NZ9/02479), funded by the National Science Centre within the program OPUS-26

1. The scope of research tasks for the POST-DOC position in the Laboratory of Microalgae Biotechnology within the research project „ *Metabolism of unicellular algae in the presence of bacterial exopolymers and their potential for biodegradation/bioaccumulation of emerging contaminants*”:

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

- participation in microbiological, biochemical and metabolomic research;
- setting up and conducting phytotron experiments;
- sampling of plant material (unicellular algae) and culture media and preparation of samples for study;
- isolation of exopolymers from culture media and determination of biochemical properties of exopolymers;
- determination of the concentration of carbohydrates, proteins, pigments (chlorophylls and carotenoids) in algae cells including spectrophotometric methods;
- determination of lipid content in algal cells (extraction method) and separation of lipid fractions using solid-phase extraction;
- identification and determination of fatty acid content using gas chromatography coupled with mass spectrometry (GC-MS);
- determination of the concentration of bisphenol A in biomass and culture media using gas chromatography coupled with mass spectrometry;
- processing, interpretation and analysis of results, statistical analysis and graphical presentation of obtained results;



- b) supervision of the PhD student's work in the laboratories;
- c) reporting on the progress of the research: preparing the necessary reports and research documentation;
- d) participation in the promotion of the Project: presentation of results at national and international conferences;
- e) preparation of scientific articles in English.

2. Obligatory Requirements:

- a) PhD in chemical, biological, agricultural or related sciences;
- b) ability to use MS Office and Statistica software;
- c) knowledge of biochemical analysis methodology (UV-VIS spectroscopy);
- d) authorship of at least 2 scientific articles published in journals with IF;
- e) very good knowledge of English, allowing free use of the scientific literature and active participation in the preparation of scientific publications (at least B2 level);
- f) excellent analytical, communication skills and teamwork skills;
- g) conscientiousness, accuracy and ability to complete tasks in a timely manner.

3. Additional requirements (welcomed)

- a) experience in the use of research techniques related to the project topic;
- b) experience in working with plant samples;
- c) experience of working with gas chromatography coupled with mass spectrometry;
- d) knowledge of environmental microbiology;
- e) authorship as a first author of at least 2 scientific articles published in journals with IF;
- f) participation in national and foreign internships.

The competition is conducted in accordance with the records of Regulations on awarding funding for research tasks funded by the National Science Centre, Poland as regards research projects (Annex to NCN Council Resolution No 50/2023 of 11 May 2023 amending the Regulations on awarding funding for research tasks funded by the National Science Centre as regards research projects).

PLEASE BE INFORMED: According to the competition rules, a person may be employed in the POST-DOC position if:

- **PhD degree must be conferred in the year of employment in the project or within 7 years before 1 January of the year of employment in the project¹⁸. This period may be extended by a time of long-**



term (in excess of 90 days) documented sick leaves or physiotherapy leaves granted on account of being unfit to work. In addition, the period may be extended by the number of months of a childcare leave granted pursuant to the Labour Code and in the case of women, by 18 months for every child born or adopted, whichever manner of accounting for career breaks is preferable.

- they did not have the principal investigator as their research supervisor or auxiliary supervisor of their PhD dissertation.
- their PhD degree has been awarded by another institution than the one planned to employ them at this post or they have completed a continuous and evidenced post-doctoral fellowship of at least 10 months in another institution than the host institution for the project and in another country than the one in which they have been conferred a PhD degree;
- they will be employed for a period of at least 6 months;
- at the time of receiving remuneration, they 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 they will be receiving no remuneration from another employer pursuant to an employment contract, including an employer with registered office outside of Poland;
- during the period of receiving this remuneration he will not receive pension benefits from the social security system.

4. We offer:

- a) gross monthly remuneration of around PLN 9,000;
- 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, Poland;
- c) access to modern infrastructure for R&D;
- d) supervision of experienced researchers;
- e) opportunities for development and upgrading professional skills.

5. Required documents:

- a) Curriculum Vitae with information regarding research skills and prior experience in science and research (including a list of published publications in IF journals and other scientific 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 01.10.2024;
- 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 30.08.2024:**

<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>