



KRekBT-1/23

Lublin, 06.04.2023

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

POST-DOC POSITION (f/m)

**in the Department of Metrology and Modelling of Agrophysical Processes
on the research project „*Physico-empirical description of the unsaturated soil hydraulic conductivity
coefficient with the hysteresis effect taken into account*” (2021/43/B/ST10/03143),
funded by the National Science Centre within the program OPUS 22**

1. The scope of research tasks for the POST-DOC position in the Department of Metrology and Modelling of Agrophysical Processes within the research project „*Physico-empirical description of the unsaturated soil hydraulic conductivity coefficient with the hysteresis effect taken into account*”:

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

- soil sampling, and soil samples preparation,
- carrying the experiments (e.g. measurements of the unsaturated hydraulic conductivity using the instantaneous profile method),
- soil properties analyses (e.g. bulk density, saturated conductivity, particle size distribution),
- data modeling and exploration using statistical and machine learning methods,
- participation in the elaboration of the model of the soil hydraulic conductivity coefficient in the unsaturated zone taking into account the hysteresis effect,
- carrying X-ray computational tomography scans and image analysis tasks related to the measurements based on the scan 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) Ph.D. in Engineering and technology, Physics, Chemistry or related sciences (e.g. Mathematics, Earth and related environmental sciences),
- b) working knowledge of R statistical software,
- c) knowledge of the English language allowing to study freely professional literature as well as



- to prepare co-authored scientific papers,
- d) authorship or co-authorship of at least 2 scientific papers published in journals with IF,
 - e) conscientiousness, accuracy, and ability to complete tasks in a timely manner,
 - f) communication skills, as well as willingness and openness to work as part of a team.

3. It would be nice if YOU additionally have:

experience in data modeling.

4. We offer:

- a) gross monthly remuneration of around PLN 7,000 - PLN 8,000
- 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
- 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 22.05.2023;
- 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 27.04.2023:**

<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>