



KStyp(NCN)-1/25

Lublin, 15.04.2025

INSTITUTE OF AGROPHYSICS,
POLISH ACADEMY OF SCIENCES IN LUBLIN
IS SEARCHING FOR HIGHLY MOTIVATED CANDIDATES INTERESTED IN SCIENTIFIC WORK FOR:

STUDENT FELLOWSHIP (f/m) in the Project:

“Determination of the influence of soil moisture and texture on the origin of water in soil splash drops using deuterium-labeled water”, financed by National Science Centre within the funding scheme SONATA-18

1. Necessary requirements:

- a. Bachelor's degree/Engineer's diploma in natural sciences or engineering;
- b. student of master's studies;
- c. knowledge of soil physics and/or stable isotope analyses;
- d. proven experience in laboratory work;
- e. knowledge of office programs (MS Office);
- f. good knowledge of English (at least B1 according to CEFR);
- g. communication and teamwork skills;
- h. willingness to travel and conduct field measurements;
- i. experience in soil sampling; in stable isotope ratio measurements; in laser diffraction particle size distribution measurements; in organic carbon content measurements; in scientific articles writing; knowledge of statistical programs is an asset.

2. Tasks in the Project:

- a. soil sampling
- b. soil preparation for analysis
- c. soil property measurement
- d. production of labeled water
- e. performing splash experiments
- f. operating a mass spectrometer to measure the ratio of stable isotopes
- g. active participation in preparation of conference posters and scientific articles
- h. statistical analysis of partial data
- i. other laboratory work

Project topic:

Water erosion is a general term for many soil degradation phenomena caused by water. Its early stage is the so-called splash – a phenomenon that occurs when a drop of water hits the soil surface and scatters its particles. This can lead to, for example, surface runoff, nutrient losses and the transfer of pollutants. An innovative method using deuterium labelling allows for a better understanding of where water in splash comes from, and thanks to this, can enable more effective research and counteracting of water erosion of soil.

The main objective of the project is to determine the origin of water from soil splash depending on such soil properties as moisture and texture or the impact energy of the water drop. There are two sources of this origin: water from a drop hitting the soil surface and water present in the soil. The use of isotopic labeling of water enables the proportion of water in splash droplets from both sources to be determined.



3. **Deadline for submitting applications: May 5th 2025**
4. **How to apply:** Candidate must send an application via [Recruitment System of the Institute of Agrophysics PAS](#)
5. **Required documents: CV with information on the candidate's scientific achievements, including:**
 - experience and competences that correspond to those required for the offered position;
 - scientific achievements, including additional activities beyond the first and second cycle studies (e.g. participation in training and workshops, additional internships and placements, publications of scientific and popularizing articles); containing consent to the processing of personal data: „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.”*

*) 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>
6. **Deadline of the competition results: May 16st 2025.**
7. **Fellowship starting date: June 1st 2025.**
8. **We offer:**
 - gaining experience in a prestigious institute of the Polish Academy of Sciences, with the highest category A+,
 - opportunity to gain practical experience in implementing an interesting project of the National Science Centre,
 - modern methods and research equipment,
 - onboarding and support throughout the project,
 - nice and creative working atmosphere
 - scholarship of PLN 5,000 gross (details below)
9. **Scholarship:** The successful candidate will receive scholarship for **16 months**, under the rules of Regulations for awarding NCN scholarships for NCN-funded research projects which constitutes an Annex to Resolution No 25/2019 (from March 14th 2019) of the NCN Council in the amount of **PLN 5,000 gross per month**.
10. **Additional information:**
 - a) The recruitment process is organized as an open competition pursuant to Regulations for awarding NCN scholarships for NCN-funded research projects which constitutes an Annex to Resolution No 25/2019 of the NCN Council.
 - b) After the deadline for submitting applications will expire, the Committee may conduct interviews with candidates. In this case, each candidate will be informed individually about the first stage results, as well as the date of the interview.
 - c) The Institute reserves the right to award the fellowship to the candidate ranked 2nd, only if the chosen candidate resigns before signing the fellowship agreement.

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