



KStyp(NCN)-1/24

Lublin, 24.06.2024

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

PhD FELLOWSHIP (f/m) in the Project:

„Studies on the conformation and rheological properties of pectins depending on the postharvest maturity of the plant source” no. 2023/51/B/NZ9/02121, financed by National Science Centre within the funding scheme OPUS-26

1. Requirements:

- a) Master's degree in biotechnology, physics, biophysics, chemistry/chemical engineering, food technology or related sciences
- b) English communication skills;
- c) good communication skills and ability to work as a part of a team;
- d) Excellent teamwork skills;
- e) experience in laboratory work;
- f) knowledge on plant cell wall assembly
- g) experience in HPLC and/or AFM imaging – are welcomed.

2. Job description:

The Institute of Agrophysics, Polish Academy of Sciences, Department of Microstructure and Mechanics of Biomaterials (MMB) is looking for **PhD student** in the Interdisciplinary Doctoral School of Agricultural Sciences.

PhD thesis proposal: *Studies on the conformation and rheological properties of pectins depending on the postharvest maturity of the plant source*

- The PhD studies will take place for 48 months (from 01.10.2024) at the Department of Microstructure and Mechanics of Biomaterials, Institute of Agrophysics, Polish Academy of Sciences, Lublin, Poland under scientific supervision of dr hab. Justyna Cybulska (j.cybulska@ipan.lublin.pl).
- The doctoral scholarship is co-financed by the National Science Centre, Poland – under the OPUS-26 project (no. **2023/51/B/NZ9/02121**) and a subsidy from the Minister of Science. The scholarship is guaranteed for a period of 48 months.
- Language of PhD course and thesis: English or Polish.
- The condition for the Candidate's involvement and payment of the scholarship in the OPUS-26 project under the conditions set out in the Act on Higher Education and Science of 20 July 2018 (Journal of Laws 2023 item 742 as amended) is his/her admission to the Interdisciplinary Doctoral School of Agricultural Sciences.

Institute of Agrophysics (Polish Academy of Sciences) is offering 4-years PhD position in the group of dr hab. Justyna Cybulska (j.cybulska@ipan.lublin.pl) at MMB in the project on **the conformation and rheological properties of pectins depending on the postharvest maturity of the plant source**. The project aims for a comprehensive understanding of pectin functionality, i.e. hydrodynamic and osmotic properties in various environments, with relation to the source, molecular structure, and solution properties. Various protocols for polysaccharides extraction have been already developed at MMB. The PhD student will study the physical, chemical and rheological properties of the pectins extracted from apples in various stage of postharvest maturity. The position is supported by the National Science Centre, Poland grant (Opus 26).



IAPAS (<https://www.ipan.lublin.pl/en/>) is a research institution of the Polish Academy of Sciences. **MMB Team** at IAPAS focuses on the multiscale structure and mechanics of polysaccharides and biomaterials and pays particular attention to fruit and vegetables due to their agricultural and nutritional importance. Additional information: [www](#) of MMB, [LinkedIn](#).

Do not hesitate to contact with dr hab. Justyna Cybulska (j.cybulska@ipan.lublin.pl) with any question related to the PhD project.

1. **Deadline for submitting applications: 28.06.2024**
2. **How to apply: Candidate must send two parallel applications via:**
 - (1) [Recruitment System of the Institute of Agrophysics PAS](#)
 - and
 - (2) [Recruitment System of the Interdisciplinary Doctoral School of Agricultural Sciences](#)
3. **Interview: 1-5.07.2024**, with the stipulation the deadline can be changed.
4. **Terms of employment:**
5. The successful candidate will receive scholarship for 48 months, under the rules of Act on Higher Education and Science of 20 July 2018 (Journal of Laws of 2023 item 742 as amended) in the amount of PLN 5,000.05 per month, reduced by ZUS due contributions on the side of the scholarship holder and the Institute up to the month of a mid-term evaluation and in the amount of PLN 6,245.11 monthly, reduced by ZUS due contributions on the side of the scholarship holder and the Institute after a positive mid-term evaluation result. **Please be informed the amount stated above also include contributions and benefits payable by the Institute (total scholarship cost), therefore the gross amount of scholarship will be calculated as the above values being reduced accordingly.**
6. **Additional information:**
 - a) The recruitment process is organized as an open competition pursuant to the terms and conditions stated in The Act on Higher Education and Science of 20 July 2018 (Journal of Laws of 2023 item 724 as amended).
 - 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.