INSTITUTE OF AGROPHYSICS, POLISH ACADEMY OF SCIENCES (IAPAS)

IS SEARCHING FOR

POST-DOC (f/m)

in the Department of Microstructure and Mechanics of Biomaterials (MMB)

in the research project „*3D printing of biomaterials inspired by plant cell wall*" (2023/49/B/NZ9/02979),

funded by the National Science Centre, Poland under OPUS 25

1. **Scientific environment:**

   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 biopolysaccharides and biomaterials and pays particular attention to fruit and vegetables due to their agricultural and nutritional importance. The group includes 12 people with 6 permanent researchers. The team has a longstanding record in the training of young apprentices and the activity of mentoring young people is part of the position. Additional information:
   - Web site of MMB: www.ipan.lublin.pl/en/departments/department-of-microstructure-and-mechanics-of-biomaterials/
   - LinkedIn of MMB: www.linkedin.com/showcase/90776755/admin/feed/posts/

2. **Candidate's research tasks:**
   a) developing a workflow for 3D printing using pectin, cellulose and hemicellulose, with consideration of the key elements of the value chain: the development stage of the source material, extraction process of polysaccharides, functionalization, adjusting 3D printing technology and evaluation of the properties of printed structures,
   b) data analysis,
   c) reporting research progress,
   d) results dissemination including preparation of publications.

3. **Obligatory Candidate's skills:**
   a) Ph.D. in Physics, Biophysics, Chemistry or related disciplines,
   b) experience in experimental research in either cell wall biology or biopolymers or polymer physics confirmed by research publications and participation in international conferences,
   c) a high level of interest in the chemistry and physics of polysaccharides,
   d) excellent teamwork skills,
   e) excellent English communication skills.

   PLEASE BE INFORMED, that according to the National Science Centre, Poland OPUS 25 competition regulations, YOU can be employed at a POST-DOC position only if YOU meet the conditions for full-time remuneration for POST-DOC position.

4. Additional Candidate's skills:

Previous experience in 3D printing, CAD, characterization of polysaccharides, microscopy (AFM, micro-CT), image analysis and mechanical testing skills.

5. We offer:

    a) remuneration according to NSC regulations for POST-DOCs,

    b) up to 4 years of employment.

6. Required documents (in Polish or English language)**:**

    a) Cover letter (max. 1 page of A4 typewritten text);

    b) Curriculum Vitae with information regarding research skills and prior experience in science and research (including list of publications, conferences 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."**

    c) Scan of the MSc diploma including grades;

    d) Scan of the PhD diploma including grades;

    e) Declaration of availability to start contract from 01.07.2024;

    f) 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 31.05.2024:**
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.

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*) 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