

KRekAd-1/23

Lublin, 18.04.2023

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

ASSISTANT PROFESSOR [POLISH: ADIUNKT] (f/m)
in the Department of Physical Chemistry of Porous Materials

1. The scope of research tasks for the ASSISTANT PROFESSOR (f/m) in the Department of Physical Chemistry of Porous Materials:

- a) conducting research in agricultural sciences in the discipline of agriculture and horticulture, including:
- research on the solid state physical chemistry (soil, biochars, chemically modified biochars, clay minerals)
 - research on how adding organic modifiers (e.g. biochar) impacts soil physicochemical, surficial properties and sorption mechanisms in different environmental conditions
 - research on how chemically modified biochars remove organic compounds and heavy metals from soil and water
- b) preparation of authored or co-authored scientific articles published in JCR indexed scientific journals from the Polish Ministry of Education and Science list
- c) presenting the research papers at national and international conferences
- d) preparation of reports and research documentation
- e) participation in the national and international scientific cooperation

2. Requirements

➤ **Obligatory:**

- a) PhD degree in Agriculture, Chemistry or related
- b) total Impact Factor at least 20
- c) proven publication activity, including at least 5 scientific articles in the last 5 years, in scientific journals from the Polish Ministry of Education and Science list with a score ≥ 100 (or $IF > 2$), including 4 as the first author
- d) managing 1 research project financed from external funds or having in the academic achievements a publication with a score of 200 or $IF > 8$ as a first author
- e) foreign research internship – more than one with a total combined duration of approximately 3



months or one with a continuous duration of approximately 2 months

- f) knowledge how to characterise physicochemical and surficial properties of solid materials using chemical and instrumental methods
 - g) research skills in adsorption processes on the solid – liquid interface and design their models using kinetics and adsorption equilibrium isotherms
 - h) operation skills of an atomic absorption spectrometer (AAS) and high-performance liquid chromatograph (HPLC)
 - i) good command of spoken and written English allowing to hold scientific discussions and prepare scientific papers
 - j) computer skills (incl. MS Word, Excel, Power Point, application for scientific data analysis and visualization, e.g. SciDavis)
 - k) ability to work in a team as well as work independently
 - l) highly developed interpersonal and communication skills
- **It would be nice if YOU additionally have:**
- a) proven experience in metal nanoparticles synthesis
 - b) research experience in the field of studies of biochars physicochemical properties and sorption mechanisms in order to remove organic (e.g. antibiotics) and inorganic (e.g. mono- and divalent heavy metals, metal nanoparticles) pollutants from water
 - c) research experience in physiochemical modification of biochars
 - d) experience in research on how biochar or different environmental conditions impact soil physicochemical, surficial properties and sorption mechanisms

3. We offer:

- a) working with the Institute with the highest rank for research units according to the evaluation of the Ministry of Education and Science (A+ rank)
- b) access to modern infrastructure for R&D
- c) working with experienced researchers
- d) opportunities to develop and upgrade scientific skills

4. Required documents:

a) scientific CV 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

c) list of scientific publications indicating their: IF, points allocated by the Polish Ministry of Education and Science, corresponding author, with copies of 5 chosen articles attached

d) list of research projects managed by a Candidate

e) list of foreign research internships

please send **in electronic form via our Recruitment System by 04.05.2023:**

<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.

The competition results will be announced not later than by 16.06.2023.

*) 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>