

**ASSISTANT PROFESSOR ("ADIUNKT" IN POLISH, POST-DOC) RESEARCH PROJECT CONTRACTOR IN THE  
DIVISION OF BIOMEDICAL PHYSICOCHEMISTRY**

**INSTITUTION:** Institute of Low Temperature and Structure Research of the Polish Academy of Sciences

**CITY:** Wrocław

**POSITION:** assistant professor ("adiunkt" in Polish, post-doc)

**RESEARCH FIELD:** chemical sciences / physical sciences / materials engineering or related

**DATE OF CONTEST NOTICE:** 9-02-2023

**DEADLINE FOR SUBMISSION OF BIDS:** 02-03-2023, 15.00 p.m.

**DEADLINE FOR RESULTS AND NOTICE OF RESULTS:** up to 7 working days from the closing date for submission of applications (in special cases, related to the need to recognize the validity of a degree/diploma obtained abroad, the settlement period may be extended to a maximum of 2 months from the date of publication)

**LINK TO WEBSITE:** [www.intibs.pl](http://www.intibs.pl)

**KEYWORDS:** nanomaterials, luminescence, arsenates, vanadates, phosphates

Institute of Low Temperature and Structure Research, Polish Academy of Sciences in Wrocław announces a competition for the position of assistant professor for a postdoctoral research project entitled: *"Preparation and modulation of spectroscopic properties of  $YXZO_4$ , where X and Z -  $P^{5+}$ ,  $V^{5+}$ ,  $As^{5+}$ , doped with "s<sup>2</sup>-like" ions and co-doped with rare earth ions"*, carried out on behalf of the National Science Centre (grant no. 2019/33/B/ST5/02247) in the Division of Biomedical Physicochemistry.

The contract will be full-time for a period of 12 months and starts on 13<sup>th</sup> March 2023.

The remuneration under the implemented contract will amount to approx. PLN 8 272,67 gross per month.

Detailed conditions of employment will be specified in an employment contract concluded between the person employed and the Director of ILT&SR PAS.

**Description of the research task (Scope of tasks)** The candidate's duties will include the synthesis of lanthanide ion doped inorganic matrices of  $YXZO_4$  type, where X and Z -  $P^{5+}$ ,  $V^{5+}$ ,  $As^{5+}$  and their structural, morphological, and spectroscopic analysis. Additionally, the candidate's tasks will include the preparation of nanoceramics based on the previously obtained nanomaterials and the examination of their structural and spectroscopic properties.

**Requirements:**

1. A doctoral degree in chemical sciences / physical sciences / materials engineering or related disciplines, obtained not earlier than 7 years before 2022. This period may be extended by the time spent on long-term (more than 90 days) documented sickness benefits or rehabilitation benefits due to inability to work. Additionally, the period may be extended by the number of months of childcare and child rearing leave granted under the rules laid down in the Labour Code, and in the case of women - 18 months for each born or adopted child, if this way of indicating breaks in the academic career is more favourable. The doctoral degree cannot be obtained in ILTSR PAS.

2. Experience in the synthesis of inorganic materials and their characterisation (morphological, structural, optical).
3. Knowledge of the basics of optical spectroscopy of solids doped with rare earth ions.
4. Ability to prepare research reports, process the results in written and graphic form.
5. Fluency in English.
6. Ability to work independently, conscientiousness, good organisation of work, and teamwork skills.
7. Candidate criteria specified in 2.1.1. Annex 2 to the document by the NCN Council Resolution No. 26/2019 of March 14, 2019. [https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2019/uchwala26\\_2019-zal1.pdf](https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2019/uchwala26_2019-zal1.pdf)

**List of documents required from the candidate:**

- a diploma or a copy of the diploma in English or Polish (in the case of being issued in another language, an English translation must be attached) confirming possession of a doctoral degree in chemical sciences / physical sciences / materials engineering or related disciplines (in the case of a degree obtained abroad, which is not recognized in Poland based on the international agreements, the candidate will apply to the Institute for its notification);
- an application for employment addressed to the Director of the Institute containing the following clause: "I agree for processing my personal data enclosed in my documents for the needs necessary of the recruitment (in accordance with art. 6 par. 1 lit. A of the General Regulation of the European Parliament and of the Council (EU) 2016/679 of 27 April 2016 on the protection of individuals with regard to the processing of personal data and the repeal of Directive 95/46 / EC and the Act of 10 May 2018 on protection of personal data (Journal of Laws 2018 item 1000)";
- scientific Curriculum Vitae, containing information about the scientific career (education and employment), as well as information on participation in conferences, internships, projects, awards and distinctions, skills, and knowledge of foreign languages;
- list of publications;
- concise information on previous scientific achievements.

The candidate will be obliged to submit, upon signing the contract, an authorisation to be included in the number of employees conducting scientific activity at the Institute.

**Applications should be addressed to:**

Documents should be submitted electronically to e-mail: [intibs@intibs.pl](mailto:intibs@intibs.pl) with the reference "post-doc OPUS17\_RW"

**Additional information:**

Information about the result of the competition will be posted on the BIP INTiBS PAN website <https://bip.intibs.pl/>

**GDPR clause:**

Your personal data is collected and processed by the Institute of Low Temperature and Structural Research of the Polish Academy of Sciences in Wrocław in accordance with the information on personal data processing available at

<https://bip.intibs.pl/artykuly/183/klauzula-informacyjna-rodo-na-rekrutacje>