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Fundacja na rzecz Nauki Polskiej

COMPETITION FOR ASSISTANT PROFESSOR (IN POLISH: ADIUNKT) POSITION AT THE ILTSR PAS IN THE DIVISION OF BIOMEDICAL PHYSICOCHEMISTRY

Institution: **Institute of Low Temperature and Structure Research, PAS**

City: **Wrocław**

Position: **assistant professor (in Polish: adiunkt)**

Discipline: chemical science

Posted: 08.09.2025

Expires: 15.10.2025

Date of the online interviews: 20.10.2025

Date of the contest settlement: 26.10.2025

Planned start date of employment: 1.11.2025

Website: www.intibs.pl

Key words: luminescence thermometry, luminescence manometry, lanthanide ions, transition metal ions, spectroscopy

The Institute of Low Temperature and Structural Research of the Polish Academy of Sciences in Wrocław announces a competition to fill the position of assistant professor (in Polish: adiunkt) position at the ILTSR PAS in the Division of Biomedical Physicochemistry funded by the project entitled "Inteligentne farby luminescencyjne wrażliwe na zmiany temperatury i ciśnienia do zaawansowanych zastosowań", carried out on behalf of the Foundation for Polish Science (FNP First Team grant. No. FENG.02.02-IP.05-0018/23) with funds from the 2nd Priority of the Program European Funds for Modern Economy 2021-2027 (FENG) by the Principal Contractor, Prof. Łukasz Marciniak in the Department of Biomedical Physicochemistry.

The contract will be concluded on a full-time basis for the period of 24 months. The remuneration under the contract will amount to approx. PLN 9 100 net (approx. PLN 12 000. gross. Detailed employment conditions will be specified in the employment contract concluded between the employed person and the Director of INTiBS PAN.

Project description

The aim of the project is the development of luminescent paints based on inorganic phosphors doped with transition metal and lanthanide ions sensitive to changes in temperature and pressure.

Tasks description

Instytut Niskich Temperatur i Badań Strukturalnych **Institute of Low Temperature and Structure Research**
im. Włodzimierza Trzebiatowskiego Polskiej Akademii Nauk Polish Academy of Sciences

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Synthesis of inorganic materials doped with lanthanide and transition metal ions

Characterization of luminescent properties of the obtained phosphors as a function of temperature and pressure

Analysis of the obtained results, preparation of reports on the conducted research, preparation of scientific publications

Requirements

The candidate must meet the requirements specified in the competition documentation for FNP First Team FENG projects edition 1/2023 posted on www.fnp.org and should:

- have a doctoral degree in chemical science, physical science or related
- doctor degree obtained after January 1st 2018
- have expertise in inorganic chemistry and a comprehensive understanding of the optical properties of inorganic materials doped with lanthanide or transition metal ions
- have experience in the synthesis of luminescent materials confirmed by the list of publications
- have experience in the characterization of spectroscopic properties of luminescent materials as a function of temperature and pressure confirmed by the list of publications
- possess qualities such as ability to work in a team, communication skills, motivation for research
- Very good command of English
- be ready to start work from November 1st 2025 (formal steps related to residence and work permit in Poland should be taken into account);

List of documents required from the candidate:

A candidate entering the competition should submit:

1. A diploma or a copy of the diploma in English or Polish (if in another language, an English translation must also be attached) confirming completion of the doctoral degree. If the diploma was obtained abroad, the candidate will be required to provide a legalised or apostilled original of the diploma before starting employment at the Institute (otherwise it will not be possible to conclude an employment contract). In the case of a degree obtained abroad which is not recognised in Poland on the basis of international agreements, the candidate will apply to the Institute for its nostrification. Information on nostrification can be found at the following link: https://nawa.gov.pl/images/users/642/Nostrification-of-academic-degrees_1.pdf).
2. 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)".

3. 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.
4. List of publications.

When signing the contract, the candidate will be required to submit an authorization to be included in the number of employees engaged in the scientific activity at the Institute, as well as to provide declarations that the publications arising from the project are part of the scientific output of the Institute.

Complete documents should be submitted in electronic version via the e-mail address: l.marciniak@intibs.pl by 15.10.2025.

Selected candidates may be invited for an interview.

Additional information

For more information, please contact the principal contractor of the project with questions prof. Lukasz Marciniak l.marciniak@intibs.pl

The competition will be conducted in accordance with the competition documentation of the First Team Feng project of Foundation for Polish Science (FNP First Team grant. No. FENG.02.02-IP.05-0018/23) with funds from the 2nd Priority of the Program European Funds for Modern Economy 2021-2027 (FENG)

Personal information:

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