



**Institution Name:** *Łukasiewicz Research Network – Krakow Institute of Technology*

**Position Title:** *Chief Research Specialist POST-DOC within the project SusEReMat No. 2024/52/L/ST11/00152, funded by the National Science Centre under the Daina 3 call (F/M).*

Nr ref: **CZM\_13/2026**

*The Łukasiewicz Research Network – Krakow Institute of Technology (Ł-KIT) is announcing a recruitment competition nr ref: CZM\_13/2026 for the position of Chief Research Specialist – Post-Doc in a project funded by the National Science Center (NCN) in the Daina 3 call, entitled SusEReMat: Sustainable electrochemical recovery of Zn-Mn-O materials from spent alkaline batteries for rechargeable applications, No. 2024/52/L/ST11/00152.*

*The **Center for Advanced Materials** is a team of scientists with specialized expertise in materials engineering, focused on designing and developing modern manufacturing techniques and technologies related to the shaping, processing, and testing of materials. The main objective of the Center’s work is to conduct advanced scientific research and to develop innovative manufacturing technologies covering all stages of the process—from concept to final product. The research topics support the development of various industrial sectors by introducing novel solutions in materials engineering, while taking into account specific applications for the foundry, aerospace, and energy industries.*

*The **Energy Storage Technologies Area** conducts research on new and improved energy-storage systems. Our current project topics include studies on ageing, degradation, and reuse of commercial batteries; recycling of spent Li-ion batteries and electronic waste; and the development of materials for modern batteries (e.g., Zn-ion, Na-ion, K-ion).*

**PI: Jędrzej Piątek, PhD**

### **Project Description:**

*A person employed as a Chief Research Specialist POST-DOC will be involved in project activities related to battery recycling and energy storage within the project SusEReMat: Sustainable electrochemical recovery of Zn-Mn-O materials from spent alkaline batteries for rechargeable applications, No. 2024/52/L/ST11/00152, funded by the National Science Centre under the Daina 3 call.*

*Type of contract: Fixed-term contract for 20 months*

*Remuneration: remuneration according to NCN rates for this position (i.e., PLN 140 000 gross/gross per year)*

*Full-time position*

*Number of vacancies: 1*

*Place of work: **Krakow, 73 Zakopiańska Street***

*Date of announcement: **May 14, 2026***

*Application deadline: **May 27, 2026***



## **Job Description/Tasks:**

*The main responsibilities will include:*

- 1. Conducting research within the project on the electrochemical recovery of materials from spent alkaline batteries and the preparation of materials for Zn-ion cells;*
- 2. Collecting samples of spent alkaline batteries, discharging, disassembling, and performing hydrometallurgical processes for the recovery of valuable elements;*
- 3. Participating in interdisciplinary research and working closely with the Project Leader, the international partner (Center for Physical Sciences and Technology, Lithuania), and the project team at Łukasiewicz-KIT;*
- 4. Conducting research in the field of materials chemistry and applying analytical techniques for the characterization of recovered materials;*
- 5. Performing physicochemical and spectroscopic characterization of the obtained materials using techniques such as SEM-EDS and XRD;*
- 6. Carrying out electrochemical studies using techniques such as CV, LSV, CA, and EIS;*
- 7. Solving experimental problems, generating new ideas within the project, testing hypotheses, analyzing scientific data from various sources, and supervising and training junior members of the project team (students, PhD candidates);*
- 8. Analyzing results obtained during experiments, preparing scientific publications, project reports, and presenting findings at national and international conferences.*

## **Requirements and qualifications:**

*A candidate for the position of Chief Research Specialist – Post-Doc in a project funded by the National Science Center (NCN) in the Daina 3 call, entitled SusEReMat: Sustainable electrochemical recovery of Zn-Mn-O materials from spent alkaline batteries for rechargeable applications, No. 2024/52/L/ST11/00152 should:*

- 1. Hold a PhD degree in the field of exact and natural sciences in the discipline of chemical sciences or related fields, obtained no earlier than 7 years before the year of employment in the project. This period may be extended in accordance with the rules described in the cost catalogue for research projects funded by the National Science Centre (NCN);*
- 2. Meeting the additional eligibility requirements for the position of Chief Research Specialist – Post-Doc, in accordance with the guidelines of the Łukasiewicz Research Network, available at the following link: [Kwalifikacje dodatkowe na stanowiska pionu badawczego w Łukasiewicz – KIT](#);*
- 3. Have a scientific track record documented by publications in internationally recognized journals (indexed in Scopus/Web of Science, h-index > 5);*
- 4. Have authored or co-authored scientific publications (minimum 3 scored publications, including at least one publication in the TOP 10% SCOPUS list);*
- 5. Demonstrate participation in at least 2 research and development projects (including projects funded from institutional subsidies, grants, or commissioned tasks) as an active team member, including at least 1 project funded from external national or international sources. Experience working in an international research team will be an additional asset;*
- 6. Have experience in cooperation with the industrial sector in the implementation of research results;*
- 7. Have practical experience in electrochemistry, hydrometallurgy, and/or battery/accumulator recycling;*



8. *Have experience in the use of materials characterization techniques such as X-ray diffraction (XRD) and electron microscopy (SEM-EDS), including analysis of the obtained results;*
9. *Be able to operate specialized software, e.g., OriginLab / MS Office;*
10. *Demonstrate fluent English proficiency at the C1 level;*
11. *Possess competencies such as scientific independence, availability, excellent work organization, ability to work in an interdisciplinary scientific team, and creative thinking;*
12. *Demonstrate readiness to collaborate within the research team and willingness to share knowledge and experience during scientific conferences and science-popularization events;*
13. *Have knowledge and experience in research using additional materials-characterization techniques (an additional asset).*

*Employment will be carried out in accordance with NCN regulations; in particular, the employed person must meet all of the following conditions:*

1. *The project leader must not have been the supervisor or assistant supervisor of the candidate's doctoral dissertation;*
2. *During the period of receiving this remuneration, the candidate will not receive any other remuneration from funds awarded as direct costs in NCN-funded research projects;*
3. *During the period of receiving this remuneration, the candidate will not receive remuneration from another employer under an employment contract, including employers based outside Poland;*
4. *During the period of receiving this remuneration, the candidate will not receive retirement benefits from the social security system.*

[https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2023/uchwala114\\_2023-zal1.pdf](https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2023/uchwala114_2023-zal1.pdf)

### **Employment Conditions:**

1. *Employment under a full-time employment contract for a period of 20 months;*
2. *Remuneration in accordance with NCN rates for this position (i.e., PLN 140,000 gross-gross per year), amounting to PLN (PLN 11 666,66 gross-gross per month);*
3. *Work in a research organization focused on the implementation of innovative and prestigious R&D projects;*
4. *36 days of annual leave per calendar year;*
5. *Benefits package (co-financing of holidays, additional medical care package, sports package, option to join a life-insurance program);*
6. *Opportunities for continuous professional development and institutional support in this area;*
7. *Free parking space;*
8. *A work environment that supports sustainable development and is based on principles of equality.*

### **Application should include:**

1. *A scanned copy of the PhD diploma or equivalent document confirming the PhD degree;*
2. *CV including the candidate's scientific activity (participation in research projects, authorship/co-authorship of scientific articles, participation in conferences, competitions, awards, community service, training, and certifications);*
3. *A cover letter addressing the fulfilment of the competition requirements;*
4. *A consent statement for personal data processing: I consent to the processing of my personal data contained in the job application for the purpose necessary for the recruitment process (in accordance with the Personal Data Protection Act, Journal of Laws 2002 No. 101, item 926, as amended).*



**Additional Information:** *The Selection Committee reserves the right to conduct interviews with selected candidates (candidates will be informed about the time and place via email).*

*Applications should be sent to the specified address:*

<https://system.erecruiter.pl/FormTemplates/RecruitmentForm.aspx?WebID=c84e4d8e84e344c79c3048b5ad672220>

Documents must be submitted in electronic form only.

The deadline for submitting documents is **May 27, 2026**

Interviews will be held on **May 28, 2026**

The final decision will be made **on May 29, 2026**

The project start date is **on June 01, 2026**

Please include the following clause in your CV sent to the Łukasiewicz Research Network -Krakow Institute of Technology:

*Based on Article 221a and Article 221b of the Labor Code of June 26, 1974, I consent to the processing of my personal data contained in the application documents by the Łukasiewicz Research Network – Krakow Institute of Technology, 73 Zakopiańska Street, 30-418 Kraków, for the purposes necessary for the ongoing recruitment process. I declare that I have been informed of my right to access, correct, request deletion, restrict processing, transfer my data, object to data processing, and withdraw my consent at any time, and to lodge a complaint with the President of the Personal Data Protection Office if I believe my data is being processed unlawfully. I also acknowledge that providing this data is voluntary. If you are interested in future recruitment processes conducted by the Łukasiewicz Research Network – Krakow Institute of Technology, please additionally include the following clause in your CV: I consent to the processing of my personal data by the Łukasiewicz Research Network – Krakow Institute of Technology 73 Zakopiańska Street, 30-418 Kraków, for the purposes of future recruitment processes conducted by the Institute. I declare that I have been informed of my rights (as described above). We inform you that the administrator of your personal data is the Łukasiewicz Research Network – Krakow Institute of Technology (hereinafter: the Institute) located at 73 Zakopiańska Street, 30-418 Kraków. Personal data will be processed by the Institute for the purpose of conducting the current recruitment process, and in the case of explicit and voluntary consent – also for future recruitment. Providing personal data is voluntary. More information on personal data protection can be found at: <https://kit.lukasiewicz.gov.pl/dane-osobowe/>*