



Laboratory of Applied Electrochemistry
<https://damiankowalskide.wixsite.com/group>

PhD position in NCN OPUS28:

Applications are invited for PhD position in the Department of Chemistry, Warsaw, Poland. The position is available in the project entitled „*Integrated CO₂ conversion and energy storage in aprotic Li battery*”, under OPUS28 no. 2024/55/B/ST4/02569 funded by National Science Centre. The successful applicant will join the Laboratory of Applied Electrochemistry (Zwirki i Wigury 101, 4.101-4.102, 02-089 Warsaw) to work on the development of Li-CO₂ battery. Lithium carbon dioxide battery is a novel concept for the next generation of battery systems, integrating CO₂ conversion and charge storage in one single device. The experimental work includes catalyst synthesis, *in-situ* observations of electrochemical reactions, and electrochemical performance studies. Applicants with a background in areas of chemistry, physics, materials science, and/or chemical engineering are welcome to apply. Prior experience in the battery domain would be a plus, however, not mandatory.

Head of the project: Damian Kowalski, PhD

Type of fund: NCN OPUS 28

Salary conditions: 1000 - 5000 PLN monthly, depending on candidate profile (tax free)

Deadline for application: 10.09.2025 1:00pm

Our offer

The start date is anticipated to be October 1st 2025, although a later start date is possible for justified cases. The maximum duration of the scholarship is 4 years. Remuneration will be 1000-5000 PLN monthly (tax free), depending on the candidate's profile. The workspace is located in Biological and Chemical Research Centre building, located at Campus Ochota at University of Warsaw.

Your profile

- Prior experience in the field is not required, but candidates should have a status of student at University of Warsaw.
- Experience in the laboratory, including experimental design, data acquisition, and data analysis.
- English-language written and verbal communication skills.
- Ability to work independently, fulfill project goals, and meet deadlines.
- Demonstrated ability to perform research and publish results in peer-reviewed literature.
The candidate needs to meet the criteria included in art. 113 of the Law on Higher Education and Science dated on July 20, 2018 (Polish Journal of Laws of 2021, no. 478).

Within the frame of the project no. 2024/55/B/ST4/02569 the successful candidate is required to:

- Plan and perform the experiments according to the project plan,
- Analyze data and perform written project reports,
- Prepare manuscripts with the cooperation of the project leader,
- Disseminate of the project results via journal articles and conference presentations.

Your application

The candidate should provide the following in his/her application:

- CV including information on master studies
- publication list,
- copy of one selected publication,
- copy of master certificate,
- signed declarations 1) [declaration1](#) , 2) [declaration2](#)

Please merge all documents in the order listed above in a single pdf file and send by e-mail to damian.kowalski@chem.uw.edu.pl with the title „PhD_OPUS28”. All application materials are due by 10.09.2025. Selected candidates will be informed by e-mail. For inquiries, please contact head of the project, Damian Kowalski.