



POLITECHNIKA POZNAŃSKA

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Proposition of Post Doc position at the Poznan University of Technology

We propose **one post doc position** at the Faculty of Chemical Technology, Poznan University of Technology (Poland) for a collaborative work during **12 months** in the frame of OPUS project funded by the National Science Centre (Narodowe Centrum Nauki - NCN) with possible extension for the next 15 months.

Project focuses on gathering new knowledge and better understanding the charging/discharging mechanisms of electrochemical energy storage systems (i.e., electrochemical capacitors) made of porous electrodes and various electrolytes. The key target is to reach a high frequency response of the system operating within a wide voltage range. The main component of electrode materials will be transition metal compounds, e.g. dichalcogenides and their carbon composites. Within the frame of the project, post doc will i) develop new 2D and 3D composite materials with high conductivity and controlled porous structure; ii) study the physicochemical properties of composites; iii) apply *operando* techniques; iv) determine the capacitance values and charge propagation of the electrode materials obtained; v) investigate the charging/discharging process in supersaturated electrolytes; vi) study the various redox couples in electrode materials and electrolytes.

This work program is recommended for experienced chemist, interested by fundamental and applied science, and aiming at developing a future carrier connected with research and industrial developments. The fellow should possess a good background in materials science and electrochemistry. The candidate should be a good team player and have the ability and willing for taking research initiative. Good English speaking and writing is obligation.

Amount of salary per month: 7 200 PLN gross salary (i.e. before taxation and mandatory charges for social security)

Starting date: not later than March 1st, 2020 Duration:

12 months (max. 27 months)

Candidates wishing to apply are requested to send Curriculum Vitae with a detailed description of experience, a list of publications, copies of most representative publications (max. 3), a recommendation letter from their scientific supervisors, a motivation letter, attested copies of education certificates including grade reports and other documents to

elzbieta.frackowiak@put.poznan.pl

before **January 31st, 2020.**

Relocation/travel and accommodation costs will not be reimbursed by the employer.

We reserve the right to contact only selected candidates.

For more information, candidate should contact prof. E. Frąckowiak, Institute of Chemistry and Technical Electrochemistry, Berdychowo 4, 60-965 Poznan, Centrum Wykładowe WTCh, room 014A, phone +48 61 665 3632.