



POZNAŃ UNIVERSITY OF TECHNOLOGY

FACULTY OF CHEMICAL TECHNOLOGY
INSTITUTE OF CHEMISTRY AND TECHNICAL ELECTROCHEMISTRY
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PROPOSITION OF MASTER THESIS STIPEND IN POZNAŃ UNIVERSITY OF TECHNOLOGY

Objective of research: *A new generation of high energy hybrid capacitors - HYCAP*

We propose a student stipend in the Faculty of Chemical Technology, Poznań University of Technology (Poland) for a collaborative work in the frame of the HYCAP project supported by the TEAM TECH Programme implemented by the Foundation for Polish Science.

The objective of the HYCAP project is to developing a new concept of high energy, environment friendly and low cost electrochemical capacitor (also called supercapacitor) based on the hybridization of electrodes undergoing different charging mechanisms. Supercapacitors are energy storage devices used for applications in electric and hybrid vehicles, tramways, starting of diesel engines, renewable energy harvesting, etc.

Within the frame of HYCAP, the student will design nanocarbons (nanoporous carbons, graphenes, carbon nanotubes, ...) and composites for positive and negative electrodes. The materials will be characterized by physico-chemical and electrochemical techniques and further implemented in supercapacitor cells.

This ambitious work programme, in collaboration with two renowned industrial partners in Poland, is recommended for a chemist interested by fundamental and applied science, and aiming at developing a future carrier connected with research and industrial developments. The fellow should possess some background in materials science and electrochemistry. She/he should be good team player and have ability and willing to taking initiative. Good English speaking and writing is also required.

Amount of stipend per month: 2,500 PLN (tax free) for 12 months.

Starting date: October 1st, 2017

Candidates wishing to apply are requested to send their Curriculum Vitae, a recommendation letter from their current scientific supervisor, a motivation letter, attested copies of education certificates including grade reports and other documents to Professor F. Béguin (francois.beguin@put.poznan.pl) before **August 11th, 2017**.

More information on: <http://powersourcesgroup.put.poznan.pl/>

