



POZNAŃ UNIVERSITY OF TECHNOLOGY

FACULTY OF CHEMICAL TECHNOLOGY

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PROPOSITION OF PART-TIME EMPLOYMENT CONTRACT FOR RESEARCH-SUPPORT STAFF IN THE FRAME OF THE FNP PROJECT HYCAP

The proposition is for a research associate with good knowledge on electrolytes for electrochemical energy storage systems (particularly Li-ion, Na-ion, Mg-ion batteries and hybrid capacitors). Since optimized electrolytes for these systems are not commercially available, the research associate should propose electrolyte formulations fulfilling a number of conditions such as high conductivity, stable solid-electrolyte interphase, reduced flammability, low temperature operation. In collaboration with Master thesis students, the researcher is expected to prepare a detailed bibliography report on electrolytes for hybrid capacitors (and related systems as batteries and electrical double-layer capacitors). The physico-chemical properties (density, viscosity, conductivity, ...) of the proposed formulations will be measured; the thermal behavior will be determined by DSC, in absence and in presence of the electrode materials. Then, in collaboration with a Post-Doctoral fellow, she/he will test such formulations separately for positive and negative electrodes.

This proposition is for one year, **starting from November 4th, 2019**, and after eventual amendment, could be prolonged for longer time in case of project prolongation.

Remuneration: 60 hours at 40 PLN brutto = 2400 PLN

Candidates wishing to apply are requested to send i) their Curriculum Vitae (including a detailed description of research experience and traineeships, a list of publications and presentations in conferences); ii) an application letter for the position; iii) copies of diplomas to Professor F. Béguin (francois.beguin@put.poznan.pl) before **October 29th, 2019**.

