Warsaw 30.08.2019

ICHF 61/2019

Functional Polymers group

Master Student Scholarship position

Number of positions available: 1

Job summary: Master student scholarship position for 9 months available in the Institute of Physical Chemistry PAS within National Science Center (NSC) OPUS 15 Project No. 2018/29/B/ST5/02335 entitled "**Metal containing polymers for electrocatalysis and electrochemical sensing**" *("Polimery zawierające jony metali do zastosowań w elektrokatalizie i wykrywaniu elektrochemicznym")* (leader dr. Piyush Sindhu Sharma).

Research Profile: First Stage Researcher (R1)

Job description: Metal-containing polymers are obtained by the incorporation of transition metals into network forming polymer chains, either as main chain constituents or included in side groups. Despite the fact that many functional materials based on metal containing polymers have been reported for development of heterogeneous catalyst, the fundamental knowledge and development of new polymerization techniques with suitable metal containing polymers are still primary concerns. In the proposed project, we propose the replacement of most commonly used block polymer based catalysts with metal containing conducting polymers, which can provide more efficient electrocatalysis. Moreover, conducting polymers based matrix will be beneficial for the electrochemical immobilization of these metal catalysts on any conducting surface. The goal of current project is to electrochemically synthesize different heterogeneous catalysts based on metal-containing polymers. In the current project careful tuning of chemical structure of metal-containing polymers will be performed to improve their properties in such a way that they will show electrocatalysis and sensing properties.

Responsibilities:

- Electrosynthesis and physico-chemical characterization of metal containing polymers.
- Study of electrocatalytsis of metal containing polymer.
- Cooperation with team members.

Career perspectives: Opportunity to work in an interdisciplinary research department with strong support from chemistry and physics group within the Institute. The student will have the opportunities, such as participation in project focused on applied research, attending and presenting research results in nationals and Internationals conferences, and visits in international partner laboratories. Participation in Erasmus+ projects.

Benefits: We offer a Master student scholarship position in the Institute of Physical Chemistry PAS with stipend in the amount of 1200 PLN per month financed from the NSC OPUS 15 Project No. 2018/29/B/ST5/02335. The position is for a period of 9 months.

A scholarship agreement will be signed with successful applicants on condition that the Institute of Physical Chemistry signs the grant agreement with NSC.

Requirements:

- At the starting date of the work within the project, applicant should be a student of intramural or extramural second degree studies, conducted in universities on Polish territory or should be a student of at least the fourth year of intramural or extramural uniform master's studies carried out at universities on the territory of the Republic of Poland.
- Ability to work independently as well as in a group.
- The average grade obtained in the course of study is not less than 4.5.
- Basic knowledge of physical chemistry, supramolecular chemistry, organic chemistry, electrochemistry and spectroscopy.
- Experience in working with chromatographic and electrochemical instruments.
- Proficiency in English speaking and writing.

Application Details:

Envisaged Job Starting Date: December 1st, 2019.

Deadline for application: October 7, 2019.

How to Apply: Applications should be sent by e-mail to: rekrutacja@ichf.edu.pl;

IMPORTANT: email title "ICHF 61/2019"

Recruitment procedure:

- **Complete application should include the following items:**
    1. scientific curriculum vitae, including a list of scientific achievements (scholarships, publications, patents, conference presentations, etc.).
    2. motivation letter
    3. recommendation letter

4. a transcript of the grades/credits received during the last stage of studies and grade point average

- The scholarship will be awarded in accordance with the NSC regulations: „*Regulamin przyznawania stypendiów naukowych w projektach badawczych finansowanych ze środków narodowego centrum nauki*"
  https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2016/uchwala96_2016-zal1.pdf
  and in accordance with the Employment policy of the Institute of Physical Chemistry PAS (http://ichf.edu.pl/employment_policy.pdf)

• The incomplete applications will be not considered;

• Short listed candidates must go through an interview (or conference call) that will be held on **28 October, 2019**. **Good command of English is required.**

• The following criteria will be taken into account:

a) competences of candidates for specific tasks in a research project.

b) previous scientific achievements of candidates.

c) awards and distinctions of the candidate resulting from the conducted research.

• The commission will evaluate applications on a point scale.

• The results of the recruitment will be announced on **5 November, 2019**.

• The results of the competition are made public.

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