



HR EXCELLENCE IN RESEARCH



Job title: PhD student

Requirements:

1. A candidate meets at least one of the conditions:

a. The candidate is a PhD student, participant in doctoral studies conducted by an authorised organisational unit of the university, a scientific institute of the Polish Academy of Sciences, a research institute or an international scientific institute operating on the territory of the Republic of Poland established by separate regulations;

b. The candidate participates in the doctoral seminar and works on the preparation of a doctoral dissertation;

c. has a professional degree in chemistry, physics or technical sciences. In this case, the candidate is additionally obliged to take the entrance interview for International Doctoral Studies at the Institute of Physical Chemistry of the Polish Academy of Sciences. The entrance interview (via skype) will take place on January 18, 2019. Applications should be submitted by January 4, 2019. Applications of candidates who will not be admitted to doctoral studies at the Institute of Physical Chemistry of the PAS will not be considered. More information: <http://ichf.edu.pl/msd/indexen.html>

2. Documented knowledge of English at B2 level;

3. Ability to use computer software in the scope enabling the analysis of received results, preparation of reports and presentations from completed research works.

Selected candidates will be interviewed (via Skype).

Task description:

Performing research tasks as part of the implementation of the scientific project NCN Opus registration number 2018/29/B/ST4/00089 entitled "*Surface-enhanced Raman scattering angular directionality imaging - the development of the method and the application in single-molecule on single nanoantenna studies*" led by Dr Sylwester Gawinkowski.

Research tasks will include:

1. Microscopic spectral and imaging measurements of surface-enhanced Raman scattering (SERS). Including measurements of individual chemical molecules and individual nanoparticles.
2. Chemical synthesis of metal and semiconductor nanoparticles for applications in SERS and their functionalization with selected chemical molecules.
3. Physical and chemical characterisation of nanoparticles and functionalised nanoparticles (measurements of UV / VIS absorption spectra, scattering spectra in a dark field, and size and shape by AFM and SEM microscopy methods).
4. Numerical simulations of nanoparticles and molecules.
5. Computer processing of experimental data, preparation of reports, presentations, and publications.

The deadline for submitting offers: 31 January 2019, 23:59

Form of offers:

Applications should be sent to the following e-mail address: rekrutacja@ichf.edu.pl

IMPORTANT! In the title of the email, enter: "**ICHF 27/2018**"

The conditions of employment:

A tax-free scholarship of PLN 3000 / month (~700 Euro) for 36 months. The scholarship will be paid on the basis of an appropriate contract and in accordance with the regulations of the National Science Centre.

Candidates who pass the entrance examination for International Doctoral Studies at the Institute of Physical Chemistry PAS may obtain an additional doctoral scholarship in the amount of PLN ~1500 - 2000 / month (the amount depends on the results of the entrance examination and progress in doctoral studies) according to the International Doctoral Studies IChF regulations.

Other benefits: social package, medical care, the possibility of granting accommodation in the IChF doctoral dormitory, ERASMUS+ .

The planned date of employment: 01/04/2019

Additional information:

Additional information can be obtained from the project manager: Dr Sylwester Gawinkowski, e-mail: sgawinkowski@ichf.edu.pl

The competition will be conducted in accordance with the "Regulations for the award of scholarships for young scientists in research projects financed from the resources of the National Science Centre" determined by the resolution of NCN Council No. 96/2016 of October 27, 2016.

Candidates are asked to send the following documents in electronic form:

- CV;
- Letter of motivation;
- List of publications (NOTE: No scientific achievements will not disqualify the candidate!),
- Copy or scan of the Master's Degree diploma;
- Certificate or diploma confirming knowledge of English;
- Reference letter from at least one independent researcher (e.g. M.Sc. thesis supervisor);
- Consent to the processing of personal data (http://ichf.edu.pl/RODO_post-doc_zgoda_NCN_EN_EN.doc)

Applications will be processed by 15.02.2019 by the competition committee. All candidates will be informed by e-mail on the result.

Date of the announcement: 18/12/2018