



Soft Condensed Matter group

2x MSc student positions

- **Job title:** MSc student – scholarship (2 positions).
- **Job summary:** MSc student positions available in the Institute of Physical Chemistry PAS within National Science Center Sonata Bis 7 Project No. UMO-2017/26/E/ST4/00041 entitled “MODULATION OF STABILITY OF VIRIONS – A FIGHT FOR AND AGAINST VIRUSES” (leader dr Jan Paczesny).
- **Job Description:**

The proposed project focuses on development of a toolkit for modulation of stability of virions using bacteriophages as model viruses. There is a need to unravel, understand and describe in quantitative manner how various factors influence viruses. We will focus on building the model of interactions between phage virions and electromagnetic field (Task 1) and on chemical reactions between designed linkers and proteins forming capsids (Task 2). Gained knowledge might be of interest also for other fields. Specific tasks will depend on profiles of successful candidates. The project will be conducted in collaboration with Professor Francesco Stellacci (EPFL, Switzerland).

From our experience the background in biotechnology would be appropriate, as it allows to adapt to both chemistry and biology tasks. However, applicants with other backgrounds will be also considered based on the possible input to the project (e.g. chemists, biologists, physicists, engineers or similar, not only experimentalist but also theoreticians). Candidates willing to study within MOST program are also welcomed (deadline for MOST application is on 15th of May).

Responsibilities:

 - Carrying out experimental work under the supervision, maintaining regular research notes.
 - Presenting at group meetings and conferences.
 - Contribution to the efficient functioning of the lab including necessary administrative and organizational tasks.
- **Nr of positions available:** 2
- **Main Research Field:** biotechnology, chemistry or chemistry, physics and computational science
- **Sub Research Field:** Two profiles of candidates are most welcome:
 - 1) experimentalists with background in bio-related science and experience in laboratory work, or

2) persons who can perform experiments in silico and build models to boost understanding of processes seen in experiments.

- **Benefits:** We offer 1200 PLN per month stipend financed from the NCN Sonata Bis 7 Project No. UMO-2017/26/E/ST4/00041. The position is for a period of 12 months, which might be extended for another year in case of candidates, who are starting their 4th year of studies on October 2018, provided that this candidate will win the next organized competition. MSc students will be additionally encourage to participate in interesting events happening in Poland, i.e. meetings of Association of Students of Chemistry (OSChem by ASSChem), All-Polish School of Biotechnology, Symbioza conferences or meetings of students section of Polish Association of Chemists.
- **Comment/web site for additional job details:** http://ichf.edu.pl/praca_student.html
- **Application Details**
 - **Envisaged Job Starting Date:** might vary in range from **July 1st, 2018** to **October 1st, 2018** depending on the obligations of the successful candidates.
 - **Application Deadline:** May 6, 2018, 23:59
 - **How to Apply:**
Send application directly to jpaczynny@ichf.edu.pl or contact website-http://ichf.edu.pl/praca_student.html
- **Required Languages:** English
 - **Language level:** good
- **Additional Requirements**
 1. The applicant should be enrolled in 2nd degree studies (4th or 5th year or equivalent) at the starting date of the work within the project (i.e., 3rd and 4th year students of biotechnology, biology, chemistry, physics or related might apply). In case of uniform course of studies the applicant should be enrolled in at least 4th year of studies at the starting date of work within the project.
 2. The candidate should be a student of an institution in the territory of the Republic of Poland.
 3. The average grade obtained in the course of study should exceed 4.3.
 4. Ability to work independently as well as in a group.
 5. Basic knowledge of rules and protocols valid in bio-labs.
 6. Knowledge on bacteriophages will be appreciated.
 7. Proficiency in English speaking and writing.
- **Recruitment procedure**
- Complete application should include the following items: application letter, professional curriculum vitae, at least one letter of recommendation written by academic or contacts to individual who can provide recommendation, and consent regarding the collection and processing of personal data (http://ichf.edu.pl/gen_inf/gen_pl/formul/Oswiadczenie-declaration_student-stypendysta.doc), and optionally university degree diploma and a list of scientific achievements (publications, patents, conference presentations, etc.). Application deadline is on **6th of May 2018**.
 - The best candidates who meet the competition requirements will be invited for an interview (or a conference-call). Good command of English is required. We reserve the right to contact and reply to only selected candidates.
 - The scholarship will be awarded in accordance with the NCN 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)

- The Commission will take into account the following criteria:
 - 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 evaluates applications on a point scale.
- The scholarship will be awarded to the person who obtains the highest number of points.
- The results of the recruitment will be announced on **May 9th, 2018**.
- In case the chosen person study in other city than Warsaw, he or she will be ask to participate in MOST program, which application deadline in on May 15th, 2018.
- The results of the competition are made public.
- Scheduled date of **starting work** within the Project might vary in range from **July 1st, 2018** to **October 1st, 2018** depending on the obligations of the successful candidates.

ZASTĘPCA DYREKTORA
d/s Naukowych


Prof. dr hab. Marek Tkacz