



Soft Condensed Matter group

Post-doctoral scientist position

- **Job title:** Post-doctoral scientist – full time employment.
- **Job summary:** Post-doc 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. The project will be conducted in collaboration with Professor Francesco Stellacci (EPFL, Switzerland).

Postdoc will be recruited to develop the physical understanding of the observed effect and boost optimization of the process. The successful applicant will need to perform experiments both in silico (where his or her role should be dominant) and in vitro or in vivo (with assistance). It will be also expected that the successful candidate will be able to build and program designed electronic circuits (e.g., based on Raspberry Pi, Arduino or other platforms) to control the parameters of the voltage or current. The background of this person should be in physics, biophysics, physical chemistry, computational chemistry or in similar fields.

Responsibilities:

- Designing, planning and carrying out experimental work independently, maintaining regular research notes.
 - Scientific initiative and contribution through regular reporting and publishing, as well as presenting at group meetings, national and international conferences;
 - Providing help and supervision to junior members of the group;
 - Contribution to the efficient functioning of the lab including necessary administrative and organizational tasks.
- **Nr of positions available:** 1
 - **Main Research Field:** biophysics, physical chemistry, physics, computational chemistry or in similar fields.

- **Sub Research Field:** The successful applicant will need to perform experiments in silico and in vitro or in vivo.
- **Benefits:** We offer a post-doctoral position (full-time employment) in the Institute of Physical Chemistry PAS with gross salary in the amount of around 8000 PLN per month (which is around 6 000 PLN net pay) financed from the NCN Sonata Bis 7 Project No. UMO-2017/26/E/ST4/00041. The position is initially for a period of 12 months, with a possibility of extension to 42 months (in total). The successful candidate is expected to start work within the project no later than on September 1st, 2018. The successful candidate will be able to take advantage of all programs in the IPC PAS, including Young Scientists of IPC PAS competition and Mobility of Young Scientists of IPC PAS competition. Additionally all benefits of employees of IPC PAS will be granted to the successful candidate, e.g., private health care program. 100% of work time of Postdoc will be devoted to realization of the proposed project.
- **Comment/web site for additional job details:** http://ichf.edu.pl/praca_adiunkt.html
- **Job Details (mandatory)**
 - **Type of contract:** temporary
 - **Status:** full-time
 - **Hours Per Week:** 40
- **Application Details**
 - **Envisaged Job Starting Date:** might vary in range from **July 15th, 2018** to **September 1st, 2018** depending on the obligations of the successful candidate.
 - **Application Deadline:** June 1st, 2018, 23:59.
 - **How to Apply:**
Send application directly to jpacztesny@ichf.edu.pl or
Contact website- http://ichf.edu.pl/praca_adiunkt.html
- **Required Education Level (optional)**
 - **Degree:** PhD or equivalents
 - **Degree Field:** biophysics, chemistry, physics, biology, biotechnology, computational chemistry or in similar fields
- **Required Languages:** English
 - **Language level:** good
- **Additional Requirements**
 1. PhD degree in chemical, physical or biochemical sciences, obtained no earlier than 7 years before the starting year of the employment in the project (this period might be longer in case of women due to family reasons (according to NCN rules)).
 2. Publication record and rich scientific experience.
 3. Ability to work independently as well as in a group.
 4. Basic knowledge of rules and protocols valid in bio-labs.
 5. Knowledge on bacteriophages will be appreciated.
 6. Ability to communicate fluently in English (written and spoken).
 7. Strong motivation to work and pursue scientific questions, creativity and analytical thinking.
 8. Research experience in a related fields will be advantageous.
- **Recruitment procedure**
 - Complete application should include the following items: employment application, professional curriculum vitae, university degree diploma and PhD certificate, a list of

scientific achievements (publications, patents, conference presentations, etc.), at least two letters of recommendation written by academics or contacts to two individuals 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_stanowisko_typu_post-doc.doc). Application deadline is on **1st of June 2018**.

- Top candidates will be invited (**between 2nd of June and 15th of June**) 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 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.
- A position will be offered to the person who obtains the highest number of points.
- The results of the recruitment will be announced on **July 3rd, 2018**.
- The results of the competition are made public.
- If the top candidate does not sign the contract, due to the resignation, we reserve the right to choose the next candidate from the ranking list.
- Scheduled date of **starting work** within the Project might vary in range from **July 15th, 2018** to **September 1st, 2018** depending on the obligations of the successful candidate.

ZASTĘPCA DYREKTORA
d/s Naukowych

Prof. dr hab. Marek Tkacz