JOB OFFER

Position in the project:	**PhD Student**
Scientific discipline:	Biophysics, Physical Chemistry, molecular microscopy and spectroscopy, single molecule microscopy, atomic force microscopy
Job type (employment contract/stipend):	Employment contract
Number of job offers:	2
Remuneration/stipend amount/month *("X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"):*	8000 PLN (~1850 EUR) full remuneration cost / ~4700 PLN (~1100 EUR) net
Position starts on:	**01.06.2019** (later start also possible June-September)
Maximum period of contract/stipend agreement:	36 months (+possible extension of 12 months)
Institution:	Poznan University of Technology, faculty of Technical Physics, Institute of Physics, Poznan
Project leader:	Dr Lukasz Piatkowski
Project title:	**HYDRA – Elucidating the role of hydration heterogeneity and hydrophobic mismatch in biomimetic cell membranes organization.** ***Project is carried out within the FIRST TEAM programme of the Foundation for Polish Science***
Project description:	The cellular plasma membrane is an intricately organized organelle, which separates the intracellular machinery from the extracellular milieu. Cell membranes are chemically highly heterogeneous, yet their components work in a concerted manner, facilitating a broad range of important cell functions. These thin bilayers of lipids orchestrate the transport in and out of the cell, direct cellular proteins and interface the cell with the extracellular environment. The organization of the cell membrane involves: **assembly into domains**, whose properties differ from those of the surrounding membrane; and **intricate interactions with the hydrating water**. Defects in the organization of the membrane components translate into dysregulation in their activity, which may lead to pathologies affecting the entire organism. Clearly, understanding the lateral organization and hydration of lipids and proteins in cell membranes is of utmost importance. The **goal** of the proposed research line is to **provide micro- and nano-scale, molecular-level insights into the structural and physicochemical heterogeneity of model biological membranes and their hydration layer**. These insights will unravel correlations between membrane hydration structure, chemical composition and organization with unprecedented levels of chemical specificity, sensitivity, and spatiotemporal resolution. The acquired knowledge will reveal the mechanisms that give rise to many fascinating aspects of cell membrane organization and regulation. This will be achieved by using a unique combination of microscopic and spectroscopic techniques: fluorescence microscopy, atomic force microscopy, and infrared micro spectroscopy. This combination will ensure ultrahigh spatial resolution, high chemical specificity and single molecule sensitivity.
Key responsibilities include:	1. Design, execution and evaluation of research experiments independently, 2. Design, construction and modification of experimental setups, 3. Ability to collaborate with others including research trips abroad, 4. Preparation of scientific reports and research manuscripts, 5. Dissemination of scientific results at conferences,

Profile of candidates/requirements:	1. You should hold a MSc degree (or You are close to obtaining one within the next few months) in Chemistry, Biochemistry/Biophysics, Physics or any field related to soft matter sciences. 2. Very good level of written and oral English language, 3. Has solid knowledge in molecular physics, biophysics, spectroscopic and microscopic techniques, 4. **Experience with fluorescence microscopy** (bulk, single molecules, fluorescence techniques), **atomic force microscopy** (especially on soft matter) or **vibrational spectroscopic techniques** (Raman, FTIR, SFG) will be a strong asset, **5. Experience with membrane biophysics, especially preparation and characterization of biomimetic cell membranes, lipid monolayers or vesicles will be a strong asset,** 6. Knowledge on scientific software such as Matlab and/or LabVIEW will be a strong asset, 7. Have a professional approach and self-motivation,
Required documents:	1. Resume (CV including your relevant professional experience, knowledge of experimental techniques, a list of potential publications and contact details of your M.Sc. supervisor and/or another academic referee), 2. Motivation letter with a brief description of why you want to pursue research studies and why do you want to join our research team, 3. Reference letter, 4. Please include in your CV the following clause: "I agree to the processing of personal data contained in my job application for the needs necessary to carry out the recruitment process conducted by Poznan University of Technology with headquarters in Poznan./Wyrażam zgodę na przetwarzanie moich danych osobowych zawartych w dokumentach aplikacyjnych przez Politechnikę Poznańską z siedzibą w Poznaniu w celu przeprowadzenia obecnego postępowania rekrutacyjnego." Note that in order to be employed in the project you have to be admitted to third-cycle (doctoral) studies. At the Faculty of Technical Physics at Poznan University of Technology this typically takes place in September. The studies normally last four years, but it is possible to defend a thesis earlier. PhD students are expected to carry out limited teaching duties.
We offer:	1. Project carried out in a young and ambitious environment, 2. PhD student position in a top-ranked technical university in Poland, 3. Access to modern equipment and facilities, 4. Interdisciplinary collaborations with foreign partners, international experience gained through a number of collaboration visits, 5. Participation in scientific conferences and training courses, 6. This project will be realized in a newly established, highly motivated research team with a focus on strong international publication output, effective collaborations and teamwork. The project will be carried out in a close collaboration with the group of Prof. Maria Garcia-Parajo from the Institute of Photonic Sciences in Barcelona, Spain, as well as with the group of Prof. Mischa Bonn from the Max Planck Institute for Polymer Research in Mainz, Germany. For details see www.piatkowskilab.com
Please submit the following documents to:	Applications should be sent to Dr Lukasz Piatkowski (lpiatkowski@ichf.edu.pl) quoting "PhD FirstTeam [Surname of the Applicant]" in the email subject.
Application deadline:	**10.03.2019** (selected candidates will be invited for interviews shortly after the deadline)
For more details about the position please visit (website/webpage address):	https://www.piatkowskilab.com
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://www.euraxess.pl/jobs/368227

Information clause

In accordance with Art. 13 of the Regulation of the European Parliament and of the Council (EU) 2016/679 of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46 /EC (hereinafter referred to as GDPR) we inform that:

1. The administrator of your personal data is **Poznan University of Technology** located at **Pl. Marii Skłodowskiej - Curie 5,60-965 Poznań** e-mail: biuro.rektora@put.poznan.pl, phone: 61 665 3639.
2. Contact details of the Data Protection Inspector - Piotr Otomański, e-mail: iod@put.poznan.pl,
3. Your personal data will be processed in order to carry out the recruitment process; the legal basis for the processing of your personal data is voluntarily and knowingly expressed by your consent according to art. 6 section 1 (b) GDPR.
4. Personal data will not be passed on to processing entities (**art. 28 section 1 GDPR**). They can be only transferred only to bodies authorized by law.
5. Personal data will be kept for the period of the recruitment process or until you withdraw your prior consent, but its withdrawal does not affect the legality of the processing which was carried out on the basis of consent before its withdrawal.
6. You have the right to access your personal data, the right to rectify them, the right to transfer them, and if applicable, also to remove them, to limit processing and the right to object to processing.
7. You have the right to lodge a complaint with the President of the Office for Personal Data Protection when you feel that the processing of your personal data violates the provisions of the General Data Protection Regulation of 27 April 2016 (GDPR).
8. Providing by you your personal data is voluntary, however, the consequence of not providing personal data may lead to inability to consider your candidacy for a vacancy.
9. Your data will not be processed in an automated way, including profiling.

Klauzula informacyjna dla potrzeb rekrutacji

W myśl art. 13 Rozporządzenia Parlamentu Europejskiego i Rady (EU) 2016/679 z dnia 27 kwietnia 2016 roku
w sprawie ochrony osób fizycznych w związku z przetwarzaniem danych osobowych i w sprawie swobodnego przepływu takich danych oraz uchylenia dyrektywy 95/46/WE (zwanego dalej: RODO), informujemy, że:

1. Administratorem Pani/Pana danych osobowych jest: **Politechnika Poznańska, Pl. Marii Skłodowskiej–Curie 5,**
   60-965 Poznań, e-mail: biuro.rektora@put.poznan.pl, telefon: 61 665 3639.
2. Inspektorem danych osobowych jest Piotr Otomański, e-mail: iod@put.poznan.pl.
3. Dane zbierane są dla potrzeb obecnie prowadzonego procesu rekrutacji; podstawą ich przetwarzania jest dobrowolnie i świadomie wyrażona przez Panią/Pana zgoda w związku z art. 6 ust. 1 lit. a RODO.
4. Dane osobowe nie są przekazywane podmiotom przetwarzającym (**art. 28 ust. 1 RODO**); mogą jednak zostać udostępnione organom upoważnionym do ich przetwarzania na podstawie przepisów prawa.
5. Dane osobowe będą przechowywane wyłącznie przez okres prowadzonej rekrutacji lub do momentu wycofania przez Panią/Pana wcześniej udzielonej zgody, przy czym jej wycofanie pozostanie bez wpływu na wcześniejsze przetwarzanie.
6. Posiada Pani/Pan prawo dostępu do treści swoich danych osobowych, prawo ich sprostowania, prawo do przenoszenia danych, do ich usunięcia lub ograniczenia przetwarzania oraz prawo do wniesienia sprzeciwu wobec ich przetwarzania.
7. Ma Pani/Pan prawo do wniesienia skargi do Prezesa Urzędu Ochrony Danych Osobowych, gdy uzna Pani/Pan,
   iż przetwarzanie Pani/Pana danych osobowych narusza przepisy ogólnego rozporządzenia o ochronie danych osobowych z dnia 27 kwietnia 2016 r. (RODO).
8. Podanie przez Panią/Pana danych osobowych jest dobrowolne, jednakże *k*onsekwencją niepodania danych osobowych będzie brak możliwości rozpatrzenia Pani/Pana kandydatury na wolne stanowisko pracy.
9. Dane osobowe Pani/Pana nie będą przetwarzane w sposób zautomatyzowany, w tym również w formie profilowania.