

JOB OFFER

Position in the project:	Postdoc
Scientific discipline:	Physics (optics, biophotonics)
Job type (employment contract/stipend):	Employment contract
Number of job offers:	2
Remuneration/stipend amount/month (<i>"X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"</i>):	11 500 PLN/month gross (expected net salary ~ 8 700 PLN)
Position starts on:	1 October 2017
Maximum period of contract/stipend agreement:	2 or 3 years
Institution:	Institute of Physical Chemistry, Polish Academy of Sciences
Project leader:	Prof. dr hab. Maciej Wojtkowski
Project title:	<i>Two photon vision and two photon eye imaging (2x2 PhotonVis)</i> <i>Project is carried out within the TEAM-TECH programme of the Foundation for Polish Science.</i>
Project description:	The general concept of this proposal is directed towards the development of novel in vivo imaging modalities, dedicated to functional retinal screening utilizing two-photon absorption process. The vision directly depends on the state of active pigments present in photoreceptors and retinal pigmented epithelial cells. The active pigments are accessible via two-photon absorption process – either by measuring intensity attenuation or by two-photon excited fluorescence. By using these approaches, we have already demonstrated that humans can perceive Near Infrared radiation due to two-photon isomerization of rhodopsin chromophores. In the first part of this project, we will exploit this phenomenon and introduce objective and functional testing of the human retina based on two-photon absorption measurement. In the second part, we will focus on delivery of short light pulses to retinal pigmented epithelial cells to improve sensitivity of two-photon excited fluorescence imaging in rodent eyes.
Key responsibilities include:	<ol style="list-style-type: none"> 1. Research related to: <ol style="list-style-type: none"> a) development of light sources and optimization for new instrumentation and methods of data analysis, b) two photon absorption measurements and implementation of new methods as well as performing two photon imaging studies and advanced phase control techniques; 2. Preparation of research papers for leading journals and conferences, together with dissemination of project results on workshops and conferences; 3. Assisting PhD students.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. MSc in physics/engineering (optics, automatics, informatics, electronics) and PhD degree (obtained <u>not earlier than 1 January 2012</u>); 2. Experience in experimental physical optics; 3. Experience in development of new methods of microscopy or medical imaging connected with ophthalmology is welcomed; 4. Shall have scientific achievements and organizational and teaching achievements.

Required documents:	<ol style="list-style-type: none"> 1. A job application. 2. Curriculum vitae. 3. A scan or photocopy of the candidate's university degree and post-graduate degree. 4. A list of publications indicating a maximum of five of the most important studies carried out in the last 5 years of the candidate's research work (after deduction of breaks in research), patent applications, patents, implementations, research projects. 5. The number of citations of publications without self-citations, the h index and the number of years worked effectively in science (after deduction of breaks). 6. Information about any breaks in performing research work, e.g. maternity leave, internship in industry, etc. When assessing the achievements of the candidate the Competition Committee shall take into account breaks in research and shall convert the candidate's indicated achievements into effective years of scientific work. 7. At least one recommendation letter from reputable expert. 8. Consent to the processing of the candidate's personal data for the purposes of the competition http://ichf.edu.pl/Oswiadczenie-declaration.doc. 9. The candidate's declaration he/she has become acquainted with the General Rules Governing Competitions for Research Posts at the IPC PAS in Warsaw.
We offer:	<ul style="list-style-type: none"> • Long term contract (2 or 3 years supported by TEAM-TECH grant); • Opportunity to work in interdisciplinary research department with strong support from chemistry and physics groups within the Institute; • Competitive salary; • Autonomous position in the professional and dynamically developing innovative team; • Involvement in research projects with international coverage.
Please submit the following documents to:	mwojtkowski@ichf.edu.pl and apawlus@ichf.edu.pl (contact person for employment)
Application deadline:	<p>20 September 2017</p> <p>Kindly specify in the application topic: Application for postdoc position – TEAM TECH project</p> <p>Successful candidates fulfilling the main assessment criteria will be invited for an interview. <u>Two candidates will be chosen</u>. The competition results shall be announced by 27 September 2017.</p>
For more details about the position please visit (website/webpage address):	
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://euraxess.ec.europa.eu/jobs/241154

Please include in your offer:

"I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."