

JOB OFFER

Position in the project:	Optical Engineer
Scientific discipline:	Physics (optics, biophotonics)
Job type (employment contract/stipend):	Employment contract
Number of job offers:	1
Remuneration/stipend amount/month (*X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN*):	11 500 PLN - monthly gross salary
Position starts on:	1 October 2017
Maximum period of contract/stipend agreement:	1.5 year (with possible extension contingent on availability of funds and research performance)
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:	Project development in new two-photon imaging technology, namely by: <ol style="list-style-type: none"> 1. Designing and constructing two-photon microperimetry devices; 2. Developing and constructing instrumentation with wavefront engineering for rodent retinal imaging; 3. Cooperating with companies involved in the project; 4. Supporting development of research papers and other assigned duties.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. Master's degree in physics (optics) or optical engineering; 2. At least 2 years of experience in construction of optical devices; 3. Familiarity with Matlab and/or Labview software; 4. Ability to work collaboratively with a wide variety of personnel at multiple levels of expertise; 5. Proficiency in English; 6. PhD degree in physics or engineering (optional).

Required documents:	<ol style="list-style-type: none"> 1. A job application; 2. Curriculum vitae; 3. A list of publications, patent applications and/or research projects (if applicable); 4. At least one recommendation letter.
We offer:	<ul style="list-style-type: none"> • Fixed term contract (1,5 years supported by TEAM-TECH grant) with extension option; • Interesting and challenging work in a young team led by a world-class scientist, prof. Maciej Wojtkowski - physicist specializing in optics applications in biology and medicine; • Opportunity to work in interdisciplinary research department on research projects with international coverage and in collaboration with industrial partners; • Competitive salary; • Ability to implement own ideas and solutions; • Participation in external trainings and international conferences; • Friendly atmosphere at work.
Please submit the following documents to:	mwojtowski@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 Optical Engineer position – TEAM TECH project</p> <p>Successful candidates fulfilling the main assessment criteria will be invited for an interview. One candidate will be chosen. 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/241204

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."