JOB OFFER

Position in the project:	Student
Scientific discipline:	Engineering and Technology: photonics, optical metrology
Job type (employment contract/stipend):	stipend
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"):*	1.500 PLN
Position starts on:	01.04.2018
Maximum period of contract/stipend agreement:	7 months
Institution:	Photonics Engineering Division, Institute of Micromechanics and Photonics, Warsaw University of Technology, Warsaw
Project leader:	prof. Małgorzata Kujawińska
Project title:	*Project is carried out within the* **BiOpTo: Tomographic phase microscope for biomedical applications** *programme of the Foundation for Polish Science*
Project description:	The main goal of the project is to develop, test and prepare for commercialization (TRL7) a novel tool for quantitative 3D analysis of phase biological microobjects namely the tomographic phase microscope (TPM). TPM is working with projections acquired within a limited angular range, which are captured sequentially or through an innovative system of parallel projections. The system of computational imaging provides full processing path: from digital acquisition of investigated object's projections up to 3D visualization. The TPM supports such biomedical applications as histopathology, traceable measurement of cells and tissues, advanced therapy medicinal products for the treatment of osteoarthritis, cancer and cardiac diseases. In the course of the project, an initial business plan will be created in order to prepare the TPM for commercialization.
Key responsibilities include:	1. Responsibilities related to development of phase microscopy and optical tomography systems for investigation of phase microobjects; responsibilities may include programming, construction of optomechatronic system and metrological analysis 2. Preparation of biological samples, measurements of these samples and development of software for data analysis 3. Responsibilities can be connected to diploma or intermediate project within student course
Profile of candidates/requirements:	1. The offer is directed to master's level students (completed engineering or bachelor degree) 2. Student in technical (photonics engineering, mechatronics, biomedical engineering) or physics field 3. Knowledge of English that allows to understand scientific literature 4. Programming skills Matlab/Python
Required documents:	1. CV 2. Motivation letter 3. Transcript of records from engineering, bachelor and master courses 4. References (min. 1)
We offer:	Unique conditions for scientific research in innovative area of photonics
Please submit the following documents to:	Electronically to zif@mchtr.pw.edu.pl, please write "Student for BiOpTo" in the message title
Application deadline:	28.03.2019
For more details about the position please visit (website/webpage address):	www.biophase.pl

European Funds Smart Growth
FNP Foundation for Polish Science
European Union European Regional Development Fund

Euraxess job/stipend offer (in case of PhD and postdoc positions):	Job Offer id: 389942

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."