

Position in the Project: PhD student in the Department of Mechatronics, Warsaw University of Technology.

Institution: Photonics Engineering Division, Institute of Micromechanics and Photonics, Warsaw University of Technology, Warsaw.

Requirements:

1. Higher education degree with specialty in the field of optics, mechatronics or physics.
2. Experience in the optical measurement and fringe pattern analysis.
3. Very good knowledge of Matlab/Python environment.
4. Fluent spoken and written English.
5. Strong motivation for scientific work (theoretical, numerical and experimental) both independently and as part of a team in an interdisciplinary environment.
6. Very good social skills and ability to meet deadlines.

General description:

The project aims at developing novel full-field optical measurement techniques for fixed and dynamic biological phase-samples characterization. PhD student will be responsible for developing, implementing and testing data acquisition, analysis and reconstruction schemes for (1) shearing multi-beam quantitative phase imaging and (2) cell-motion-based interferometric tomography. Experimental work will concern developing optical setup for shearing quantitative phase imaging and testing various biological and technical objects using the developed software and hardware. A successful dissemination of results to the scientific community is expected.

Type of NCN Project: OPUS – ST.

Application deadline: 28.02.2018, 00:00.

Please submit the following documents to: m.trusiak@mchtr.pw.edu.pl.

Conditions of employment:

PhD scholarship: 3500 PLN/month, stipend contract for 36 months.

Preferred time of starting position: 1st April 2018.

Additionally, the financial support of abroad scientific visits and attending conferences is ensured within the project.

Additional information:

Motivation letter (in English).

CV (in English).

Master thesis.

Contact details of the scientific supervisor and other referees (if available).

To apply, please send your application, including motivation letter, CV with the list of your publications and achievements, Master degree thesis alongside with contact information to the scientific supervisor and other referees (if available) to the following e-mail address: m.trusiak@mchtr.pw.edu.pl until the 28.02.2018. Incomplete applications will not be considered.

We thank all applicants for their interest, however, only selected candidates may be invited for an interview. Applications will be accepted until the position is filled. If the winner of the competition resigns from signing the contract, we reserve the right to choose the next best person from the ranking list.

Please, include in your application the following statement: "In accordance with the personal data protection act from the 29th of August 1997, I hereby agree to process and to store my personal data by the Institution for recruitment purposes."