The duties of the employee will include:
1. Conducting research in frame of the Polish National Science Centre NCN OPUS grant no UMO- 2014/15/B/ST7/03107 entitled “Optical single-pixel detection based on the theory of compressive sensing”, including:
   - taking part in designing, assembling, programming, and conducting measurements with an optical single-pixel detector with a structured illumination or with a structured aperture.
   - taking part in designing and manufacturing samples of optical metamaterials. Developing measurement methods for optical metamaterials based on compressive sampling.
   - supervising students who take part in the project.
2. Publishing the results in scientific journals and presenting the results at international conferences.

The requirements that candidates must meet at the time of submission of the documents:
1) Have a Ph.D. in physics (or equivalent).
2) Knowledge of the theory of compressive sensing/sampling; proven experience in
electromagnetic modelling of optical metamaterials and in signal processing methods, especially those related to compressive sensing; experience in experimental work in the field of optics, in thin film evaporation, and in using scanning microscopes.

3) Proven experience of MATLAB and C++ programming language.
4) Possess a skill of fluent speaking and writing in English.

**DOCUMENTS REQUIRED:**

1. Application for the position;
2. CV (with contact e-mail address);
3. Information about candidate’s scientific career and teaching experience;
4. List of scientific publications with citations number;
5. Copy of the PhD diploma certificate;
6. Filled in University Personal Data Formular (KWESTIONARIUSZ OSOBOWY), available at [http://portal.uw.edu.pl/web/biuro-spraw-pracowniczych/formularze/-druki-do-pobrania;jsessionid=5B046931CA1DDBDF874731876655FC0F](http://portal.uw.edu.pl/web/biuro-spraw-pracowniczych/formularze/-druki-do-pobrania;jsessionid=5B046931CA1DDBDF874731876655FC0F)

The documents listed above as 2, 3, 4 have to be e-mailed as pdf or doc files to the address: sekretariat@igf.fuw.edu.pl.

**HOW TO APPLY:**

The candidate should provide all paper documents to Ms. Katarzyna Dyl, Secretary of the Institute of Geophysics, Faculty of Physics, University of Warsaw, ul. Pasteura 7 room no. 426, 02-093 Warsaw, Poland