

## PhD student position in computational mechanics

### BASIC INFORMATION:

Project title: **Adhesion, friction and contact area in soft elastic and viscoelastic contacts at finite deformation**  
PI: **prof. Stanisław Stupkiewicz**  
Funding: **National Science Centre (NCN)**  
Organisation: **Institute of Fundamental Technological Research (IPPT)**  
Project duration: **48 months**  
Application deadline: **15-08-2021**  
Recruitment results: **08-09-2021**

### JOB DESCRIPTION:

- Successful candidate will join the team working on computational modelling of soft contacts. The specific research tasks planned for the PhD student include development and implementation of a family of models of adhesive contact with friction with full account of the finite-deformation effects. The focus will be on elastomer/glass contact as a model contact pair that is extensively studied in experiments. The research will be carried out in collaboration with an experimental group from LTDS, Ecole Centrale de Lyon, France. The PhD project includes a 6 months stay at LTDS. The project is supervised by Prof. Stanisław Stupkiewicz, head of the Materials Modelling Group at the Institute of Fundamental Technological Research (IPPT), Polish Academy of Sciences in Warsaw, Poland.

### REQUIREMENTS:

- master degree or equivalent in mechanical engineering, civil engineering, technical physics, or related,
- strong oral and written communication skills in English,
- background in solid mechanics, mechanics of materials, computational mechanics.

### CONDITIONS:

- form of employment: 48-month doctoral scholarship,
- the amount of the scholarship: PLN 5,000 (gross) per month for the first two years and PLN 6,000 for the next two years (net amounts after deducting the compulsory social security contributions are approximately PLN 3,800 and PLN 4,550, respectively),
- start of education at the Doctoral School of IPPT PAN: October 1, 2021,
- recruitment includes the entrance examination to the Doctoral School of IPPT PAN, which will be held on September 6, 2021.

### REQUIRED DOCUMENTS:

- 1) a cover letter addressed to the project manager,
- 2) curriculum vitae with a list of publications and other achievements,
- 3) a copy of the university graduation diploma,
- 4) the documents must be accompanied by the statement:

"I consent to the processing of personal data contained in my job offer for the purposes necessary to carry out the recruitment process carried out by IPPT PAN based in Warsaw, ul. A. Pawińskiego 5B, in accordance with Art. 13 sec. 1 and 2 of Regulation (EU) 2016/679 of the Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46 / EC (GDPR)."

**Applications are to be submitted by email to Prof. Stanisław Stupkiewicz ([sstupkie@ippt.pan.pl](mailto:ssstupkie@ippt.pan.pl)) by 15/08/2021.**

Potential candidates are encouraged to contact Prof. Stanisław Stupkiewicz by email ([ssstupkie@ippt.pan.pl](mailto:ssstupkie@ippt.pan.pl)).

For more information see <http://bluebox.ippt.pan.pl/~sstupkie>.