

Institution: Institute of Fundamental Technological Research IFTR PAS

City: Warsaw

Position: assistant professor

Field: mechanical engineering

Date of publication: 03.03.2021.

Application deadline: 02.04.2021.

Recruitment No: BSP/DSP/110-4/2021

Keywords: unstable plastic flow, physically-based modelling, strain induced martensitic transformation, tensile test at cryogenic temperatures.

What we offer:

- employment as an assistant professor in the Department of Experimental Mechanics of the IFTR PAS,
- scientific collaboration with world-wide experts from leading domestic and international laboratories,
- access to experimental facilities for identification of mechanical and physical properties of materials at wide range of temperatures.

Scientific aims:

- experimental identification of material and physical properties of polycrystalline materials and composites tested at cryogenic temperatures (even at 4.2 K),
- experimental identification of dissipative phenomena observed in polycrystalline materials and composites tested at cryogenic temperatures,
- experimental identification of combined dissipative phenomena observed in polycrystalline materials and composites tested at cryogenic temperatures,
- microstructural analysis of materials tested at cryogenic temperatures,
- numerical modelling of dissipative phenomena in polycrystalline materials and composites tested at cryogenic temperatures.

Requirements:

- PhD in the field of technical science (mechanics),
- experience in scientific work documented by scientific publications related to the dissipative phenomena in polycrystalline materials and composites tested at cryogenic temperatures,
- experience in experimental identification of mechanical properties of materials tested at cryogenic temperatures,
- publications record (more than 3 papers in JCR journals),
- participation in international and domestic scientific conferences and events,
- participation in scientific projects/grants as Principal Investigator (e.g. NCN projects),
- communication skills and the ability to work in a research team,
- fluency in English,
- fulfilment of the requirements adopted at the IPPT PAN when employed in scientific positions: (http://www.ippt.pan.pl/attachments/article/174/2016-02-22uchwala_zatrudnianie.pdf).

Required documents:

1. Motivation letter
2. CV
3. A brief description of the research work done so far
4. List of publications
5. Copy of the PhD diploma
6. Please include in your CV the following clause: "I agree to the processing of personal data contained in my job offer for the needs necessary to carry out the recruitment process conducted by IPPT PAN with headquarters in Warsaw, ul. A. Pawińskiego 5B, according to art. 13 para. 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 the free movement of such data and the repeal of Directive 95/46 / EC (RODO).

Employment: Fixed-term employment contract with the possibility of extending it for an indefinite period on a full-time basis - after a positive outcome of the competition.

Applications should be submitted to:

HR Department of IPPT PAN

konkursy.ippt@ippt.pan.pl

Pawińskiego Str. 5B, 02-106 Warsaw

Please refer to the Recruitment number in your application

Additional information:

Prof. dr hab. Zbigniew L. Kowalewski, zkowalew@ippt.pan.pl