

INSTITUTION: Institute of Fundamental Technological Research, Polish Academy of Sciences
CITY: Warsaw
POSITION: postdoc / assistant professor
DISCIPLINE: mechanical engineering (mechanics)
DEADLINE: 29-03-2024
KEYWORDS: mechanics of materials, microstructure, phase transition, finite element method, phase field method

We offer: Employment in the position of postdoc / assistant professor funded by the National Science Centre (NCN) under the grant „Revealing the effect of diffusion on formation of the omega phase in metastable beta-Ti alloys: micromechanical insight from phase-field modelling”. Funding in the amount of 140.000 PLN per year (gross-brutto, monthly about 7.500 PLN net) is provided for a period of 30 months.

Tasks: Modelling of the beta-omega phase transition in metastable beta-Ti alloys. Development of new models within the phase-field method. Analysis of omega-phase nucleation scenarios. Computer simulations of microstructure evolution. Short project description:

<https://ncn.gov.pl/sites/default/files/listy-rankingowe/2022-09-15-opu8jisl/streszczenia/573153-en.pdf>

REQUIREMENTS:

- PhD degree in mechanical or civil engineering, materials science, or related obtained after 2017
- Good publication record in JCR journals (Web of Science)
- Strong oral and written communication skills in English
- Meeting the requirements on the rules of employment in scientific positions at IPPT (in Polish): (https://www.ippt.pan.pl/attachments/rada-naukowa/2019-02-28uchwala_zatrudnianie_zasady.pdf)
- Experience in the project topic (mechanics of materials, micromechanics, computational mechanics, finite element method, phase field method) will be an asset

REQUIRED DOCUMENTS:

- 1) Motivation letter
- 2) CV and list of publications, including the number of citations and Hirsch index according to Web of Science and/or Scopus
- 3) Short description of the achievements and research carried out so far
- 4) Copy of a PhD diploma or a certificate attesting a PhD degree
- 5) Signed statement: “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).”

PERIOD OF EMPLOYMENT:

Employment contract for a fixed term (30 months) on a full-time basis – after successful completion of the competition. Planned start of employment: June 2024 (to be agreed).

SUBMISSION OF THE APPLICATIONS:

HR Office: konkursy.ippt@ippt.pan.pl, by post or in person: ul. A. Pawińskiego 5b, 02-106 Warsaw, phone no. +48 22 826 98 23.

Potential candidates are encouraged to contact Prof. Stanisław Stupkiewicz (sstupkie@ippt.pan.pl) before applying. For more information see <http://bluebox.ippt.pan.pl/~sstupkie>.