

Job Offer (Specialist Supporting Position)

The Faculty of Mechanical Engineering at Silesian University of Technology, Gliwice Poland, hereby announces a competition for a **Specialist Supporting Position** in the research project entitled: "Deciphering laser-microstructure interaction in multicomponent alloys (DECLARMIMA)". The research project (Project Number: 2021/42/E/ST5/00339) is funded by the Narodowe Centrum Nauki (NCN) within the framework of SONATA BIS 11 competition .

Requirements:

1. Master's degree awarded in the field of materials engineering, mechanical engineering, or related field .
2. Strong background in at least one of the following experimental techniques: (1) Microscopy , (2) Imaging and visualization, (3) Laser processing (4) Sensors and dataloggers ;
3. Proven track record of integrating numerical analysis (finite element analysis and multiphysics simulations) with the experimental works of laser processed samples ;
4. Ability to communicate fluently in Polish language as well as English language;
5. Ability to work independently as well as work together in team.
6. Experience with experimental characterization of interfacial microstructures or interfacial intermetallics.

Description of tasks:

The task of the person (LM1) employed in the **Specialist Supporting Position** is to work together with the principal investigator (PI) for establishment and maintenance of the research laboratory within the framework of DECLARMIMA project. Working as the laboratory manager, the LM1 will first support the PI in the procurement/purchase of the equipment and materials required in the project. Then the LM1 will manage the laboratory so as to maintain a conducive environment for conducting necessary experiments, and performing necessary simulations, modeling and data analysis in computers. The LM1 will instruct the student(s) to perform the necessary experiments in the most scientific way. The project blends experiments, multiscale simulations and machine learning techniques and thus there will be an accumulation of data of huge varieties. For the designed data management scheme (e.g. metadata schemes for experimental and simulation datasets) in the laboratory, the LM1 will also perform the task of maintaining smooth information flow among the research team members (of the project) .

NCN call for proposals type: SONATA BIS - ST

Deadline for submission of tenders: 29.09.2022

Form of tender submission: email

Terms of Employment:

Place of work: Faculty of Mechanical Engineering, Silesian University of Technology, Gliwice, Poland.

Announcement of competition results: 02.10.2022

Duration of employment: 36 months

Working hours: Full time (40 h/week).

Date of commencement of employment: As soon as possible.

Additional Information:

Application procedure:

The application should contain the following documents/information:

1. CV including the following information (list of scientific achievements, a list of publications, conference presentations, awards and distinctions for scientific activity , experimental skills) ;
2. Copy of the MSc diploma or equivalent document ;
3. Copy of the MSc thesis abstract;
4. Copy of a completed work (as a single manuscript consisting of elements of both experimental works and finite element simulation of laser processing) that has been submitted to a journal. The information about the name of the laser device(s) and the name of the FEA software utilized in the work must be clearly mentioned in the motivation letter.
5. Application letter or letter of motivation (maximum 1 page);
6. Acronym for reference of this position (Reference: D-LM-2022-1).

In addition to the above documents, please prepare a document consisting of the following statement: "I consent to the processing of my personal data for the purpose of recruitment in accordance with Art. 6 sec. 1 letter a of the Regulation of the European Parliament and of the Council (EU) 2016/679 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 (general regulation on data protection). "

Application document (all of the documents combined together in a single pdf file) in English should be sent electronically to the principle investigator (PI) of the project Dr. Anil Kunwar (e-mail address: anil.kunwar@polsl.pl). It is recommended to include the job reference (Reference: **D-LM-2022-1**) in the subject of the email message.