Job Offer (Specialist Supporting Position)

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

Requirements:

1. Master's degree or PhD degree awarded in the field of chemistry, physics, technology, materials engineering, mechanical engineering, arts (mathematics), or management .
2. Good background in at least two of the following methods: (1) Measurement techniques, (2) Materials Characterization, (3) Electrochemical Characterizartion, (4) Mathematics, (5) Crystallography, alloys and laser technologies;
3. Experience with computed tomography for material characterization;
4. Ability to communicate fluently in English language and Polish language;
5. Ability to work independently as well as work together in team;

Description of tasks:

The task of the person (LM3) employed in the **Specialist Supporting Position** is to work together with the principal investigator (PI) for the establishment, maintenance or expansion of the research laboratory within the framework of DECLARMIMA project. Working as the laboratory manager, the LM3 will support the PI in the procurement/purchase of the equipment and materials required in the project. The LM3 will manage the virtual infrastructure of the laboratory so as to maintain a conducive environment for conducting necessary experiments, and performing necessary simulations, modeling and data analysis in computers. The LM3 will instruct the student(s) to perform the computer simulations 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 LM3 will also perform the task of maintaining smooth information flow among the research team members (of the project).

The specific tasks related to the maintenance and expansion of the laboratory are as following:

1. *Contribute to the establishment and expansion of an agile laboratory platform related to the development and testing of digital twins for laser processed multicomponent alloy microstructure.*
2. *Contribute to the setup of electrochemical workstation that is utilized in the testing of 3D printed materials (3D printed alloys or polymers).*

NCN call for proposals type: SONATA BIS - ST
Deadline for submission of tenders: **12.01.2025 (17:00 CEST)**

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: **As soon as possible**
Duration of employment: 10 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, experimental skills) ;
2. Copy of the Master's degree diploma/PhD degree diploma or a document confirming the completion of the final defence of the Master's or doctoral dissertation ;
3. Application letter or letter of motivation (maximum 1 page);
4. Acronym for reference of this position (Reference: D-LM-2024-3).

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-2024-3**) in the subject of the email message.