
INEGI, the Institute of Science and Innovation in Mechanical and Industrial Engineering, is a research and technology organization, associated with the University of Porto in Portugal. In the context of a significant increase in R&D activity, INEGI is looking to reinforce its Composite Materials and Structures group. For this purpose and within the Lay2Form project, INEGI will hire:

Engineer (composite materials and processing) (m/f)

Project framework (European project):

Title:

Efficient Material Hybridization by Unconventional Layup and Forming of Metals and Composites for Fabrication of Multifunctional Structures

Description:

LAY2FORM will create a new cost-effective multistage manufacturing platform based on flexible machinery concepts, cognitive automation, inline monitoring and inspection, as well as simulation and modelling, enabling the efficient integration of unconventional technologies (laser and ultrasound) in established composites-based processes, namely tape-laying and hot-forming, to enable the production of multifunctional 3D hybrid parts from thin layered metals and thermoplastic-matrix composites.

The Successful candidate will:

- Identify the main processes variables and their interdependence;
- Implement monitoring systems for the main process variables control;
- Establish the correlation between processing parameters, morphology and the mechanical behaviour of materials and composite structures;
- Define processing windows;
- Develop and/or adapt equipment;
- Produce project technical reports;
- Contribute to scientific production.

We are looking for candidates with the following profile:

- Master's degree in Mechanical Engineering or Polymers (processing area);
- Experience in a similar position (2-3 years);
- Experience/knowledge on composite materials and their associated processes;
- CAD/CAE tools experience;
- Availability for national and international travels;
- Capacity for analysis, critical thinking and goal orientation;
- Strong interpersonal and communication skills;
- Responsibility, pro-activity and autonomy;
- Written and spoken English.

We offer:

- Integration in a reference Research, Innovation and Technology Transfer Institution;
- Salary conditions adjusted to the profile and potential demonstrated by the selected candidate.

Expressions of interest must be sent, along with by CV, Certificate of Qualifications and Certificate attesting the proficiency of English, from 05th July to 17th August 2018 through the official page of INEGI www.inegi.up.pt in Working at INEGI | Vacancies (available in reference CT UMEC 27/18)