MADECOLD funded PhD position: Design and Control of Novel Additive Manufacturing Processes

As part of the project MADECOLD – Multi-Material Additive Manufacturing with Electrostatic Cold Spray, funded by EU Horizon, applications are invited for a PhD position in the area of design and control of novel additive manufacturing technologies. The position will be hosted by University College Dublin.

One of the primary goals of this project is to design and control a novel solid state additive manufacturing process based on the innovative principle of powder charging and acceleration in a customised electrostatic field. The ultimate objective is to design, test and propose a new, more flexible and scalable 3d printing technology.

The position will involve significant interaction with other academic, research and industrial organisations. Applications are sought from excellent candidates who have as a minimum an Honours (Level 8) Bachelors Degree in Mechanical / Electrical / Electronic / Industrial Engineering or equivalent (with a minimum of 2H2 honours level, or equivalent) and a background in some, or all, of the below areas, for a position commencing in December 2024:

- Designing and simulating mechanical parts and assemblies using Computer Aided Design (CAD) and Engineering (CAE) tools;
- Micro manufacturing / fabrication processes, e.g. MEMS fabrication, electrodeposition and micro machining;
- Control system development, monitoring and IT tools (MATLAB, LabVIEW, etc.);
- Programming languages, such as Python, C++, Java.

More information: https://cordis.europa.eu/project/id/101130639

For informal enquiries contact: Assoc. Professor Nikolaos Papakostas (nikolaos.papakostas@ucd.ie)

Interested applicants should submit one single PDF file to this link, including 1. Cover letter, 2. a recent CV, 3. Bachelor's and Master's degree transcripts 4. Contact details of three referees

Closing date for applications is August 30th, 2024.