

Senior Researcher for the High-Power Processes and Applications Area (HPPA)

[Ref.: 02 09/18]

Main duties:

Be part of the High-Power Processes and Applications (HPPA) area:

- + Coordination of active projects and reporting to the area coordinator, in addition to participating in the development of the strategy and the generation of new ideas.
- + Coordinate and execute technical tasks related to design, process planning, manufacturing, post-processing, testing and analysis of results, writing technical reports and deliverables, etc.
- + Prepare and submit R&D proposals in the area of manufacturing processes in collaboration with the multidisciplinary team of AIMEN.
- + Technically coordinate the projects in which the HPPA area plays the main role: control the execution of the project and the achievement of planned milestones; control the quality, adequacy and punctuality of the work of project partners; manage the execution of the project in the internal management tools.
- + Networking: Attend technical conferences, conferences, congresses on behalf of AIMEN, presenting the results of the projects and prepare publications for JCR indexed journals.

Contact:

If you are interested, please fill the application form and attaching your C.V, (*CV_Surname_First name.pdf*) through our website: www.aimen.es

Education:

- + Degree or Master Degree in Industrial Engineering, preferably with a specialization in Manufacturing Process.
- + Degree or Master Degree in Mechanical Engineering, Materials or similar.

Job specific skills:

Advanced knowledge in:

- Joining and manufacturing technologies of broad spectrum of metals: laser technologies, friction stir welding, electric arc, etc.
- Industrial equipment based on these technologies and their deployment on robot / CNC positioning systems.
- 3D modelling and design tools (CATIA, ProEngineer, Solidworks or similar).
- + Ability of offline programming using commercial tools (e.g. Mastercam, Robotmaster, Powermill or similar).
- + Minimum 5-year experience in R & D aimed at joining and manufacturing technologies, preferably in an industrial environment or closely linked to industrial applications.
- + Relevant participation in the preparation and execution of at least three publicly finance projects, of which at least one within the framework of H2020, related to the subject of advanced manufacturing processes.
- + English: C1/C2. Complete professional competence
- + Availability to travel.

Desirable qualifications and skills:

- + Doctorate will be highly regarded, especially if related to processing of metallic materials: metallurgy, welding and other joining or similar.
- + Knowledge and demonstrable experience in:
 - Simulation tools for joining processes and manufacturing by energy input (SysWeld, Pancomputing or similar).
 - Monitoring and control systems for joining and manufacturing process.
 - Metal Additive Manufacturing technologies, especially those of Direct Deposition of Energy (p-LMD, w-LMD, WAAM, etc.)
 - Work programs of the H2020, above all NMBP and FoF.
- + To have participated in European platforms and working groups at European or national level related to materials, joining technologies, advanced manufacturing, etc.
- + To have worked in the certification of products for one or more of the following industrial sectors: aeronautics, automotive, naval, energy or space.
- + To have a network of industrial contacts and research centers at national and European level.

We offer:

A challenging job within a solid and prestigious organization, in continuous development and providing services to the major industrial sectors, where you can combine research and its actual application in national and multinational companies.