



Post-Doctoral offer

Development of the Dynamic Molding technology with a multidisciplinary approach

About the common laboratory: We offer a 18-month postdoc position (renewable) starting on April 2023, for exploring the Dynamic Molding technology. This project is part of a joint researcher activity involving one academic laboratory ([ICBMS-3d.FAB](#)), one of the top world laboratory in additive manufacturing) and one industrial company ([3Deus Dynamics](#)).

Scientific context: Dynamic Molding is a brand-new **Zero gravity** and **Freeform** additive manufacturing technology that is revolutionizing the production of organic and inorganic 3D objects. The deep understanding of this Freeform 3D printing technology is the key to produce innovative designs and materials.

Discovered on the 3d.FAB platform and developed by the 3Deus Dynamics Company, the creation of a joint laboratory will allow them to better understand the success of the Dynamic Molding technology. This will be possible by addressing 4 research areas:

- 1- Numerical simulation of fluid and granular systems
- 2- Materials sciences and Interfacial physical chemistry
- 3- Interactions with the printing environment
- 4- Process development

Education requirements & skills: The successful candidate will have a PhD in material sciences and a high experience in experimental rheology in fluid and granular systems.

The candidate must also demonstrate expertise/knowledge in following topics: numerical simulation (CFD, DEM), macromolecular chemistry, additive manufacturing and European funding.

The candidate is expected to be an enthusiastic and self-motivated person with strong intellect who is able to take a creative approach to scientific tasks.

The candidate should have the skills necessary to be an independent researcher. The abilities to lead and a communicative are strong advantages. Fluent English language is required for this position.

Location: The research activities will be based in the ICBMS laboratory and its 3d.FAB platform hosted in Axel'One Campus, 5 Avenue Gaston Berger, 69100, Villeurbanne, France.

Salary: 2100€-2800€ neat/month

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