

Computational R&D Specialist

Job Description

Company Description

Caracol offers extreme, Additive Manufacturing, solutions with no scale limits to companies in different industrial sectors.

The company has developed its own Large-Scale Additive Manufacturing Robotic system, that with a patented extrusion head, proprietary algorithms and the use of robotic arms, can manufacture advanced components with no limits in scale. The flexibility of the robotic system allows not only to manufacture very large-scale parts but also complex geometries and parts with improved mechanical performance. Caracol provides a solution that saves production costs, reduced production lead time, and limits production waste to a minimum and can reutilize the waste produced.

By using a direct printing system, Caracol works with a wide variety of advanced composite materials – mostly techno polymers like PP, PPS and PA12 reinforced with fibers like carbon and glass. Thanks to our deep know-how and strategic partnerships with material producers, our Design & Engineering team identifies the best fitting material and technology to manufacture our client's applications.

Caracol's team combines a deep expertise in generative design and additive manufacturing, with an extensive knowledge of the industrial goods sector. Using very advanced design and analysis tools to optimize design for additive manufacturing according to the required performance. We work with clients accompanying them throughout the production process, supporting them by facilitating their getting to know the technologies and the opportunities of Additive Manufacturing.

We have been working with customers from industries such as Automotive and Motorsports, Aerospace and Defense, Industrial Machinery, Medical Devices, Design and Architecture. We offer our clients a broad range of solutions: from design and concept development, engineering components for AM production, manufacturing prototypes and pre-series with no limit in scale, line production of finished parts, as well as support in internalizing 3D printing technologies, 3D printing training and workshops and more.

Caracol has just closed a 3.5M Euros funding round with 2 Venture Capital Funds and several top tier business angels and it is now launching an ambitious growth plan to consolidate its role as leader in the Large-Scale Additive Manufacturing industry.

Job Type

- Full-time

Contacts

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+39 0362 283 204

Address

Via Marisa Bellisario 6C,
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CARACOL

Main activities

- Definition of complex toolpaths for robotic 3D printing systems with 6 or more axes through the Rhino + Grasshopper platform, participation and support to the D&E department for the development of special applications
- Support and collaboration with our automation team for the development and integration of advanced 4.0 control systems (machine learning, real-time feedback ...)
- Interaction with external partners (research centers, universities, etc.) for the development of advanced software features
- Participation in the development of applications for regional, national and international calls and tenders
- Research on technologies and support on production of documentation for intellectual property related to the new systems developed

Operational Skills Required

- Academic background in Computational Design or Computer Science or relevant working experience in these fields
- Master Thesis on Additive Manufacturing or PhD is considered a plus
- Experience in Algorithm definition and optimization
- Knowledge in Coding and Programming Languages (such as Python), deep knowledge of Rhino/ Grasshopper Platform
- Experience with Machine and robotic programming in Additive Manufacturing and CNC milling is a plus
- 1-3 years of experience in R&D department in the Additive Manufacturing both in companies, universities, or research centers is considered a plus

Soft Skills required

- Organizational skills and self-management of time and activities
- Teamwork
- Proactivity
- Flexibility in adapting to different tasks and to a dynamic working environment

Place of work

- Via Bellisario 6c, Barlassina (MB), Italy
- Smart Working

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