

Automation 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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Address

Via Marisa Bellisario 6C,
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CARACOL

Main activities

- Design and development of new control systems for Caracol's proprietary robotic technology in cooperation with the hardware and software development resources of the R&D team
- Design of control systems, interface systems for numerical control machinery
- Design of electronic boards, PCB, THT, SMD
- Development of software for microcontrollers
- Design and assembly of MB / BT control panels and control consoles
- Management of supply relationships and collaboration with external partners

Operational Skills Required

- Degree in Automation Engineering, Mechatronic Engineering, Electronic Engineering, or considerable work experience in these areas
- Master Thesis on Additive Manufacturing or PhD is considered 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
- Experience with automation and control in robotics, Additive Manufacturing and CNC milling is 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 Marisa Bellisario 6, Barlassina (Monza Brianza), Italy
- Smart Working

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