# CARACOL

# Freelance Software Developer

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

- Freelance

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We are looking for a freelance developer to help us accelerate our additive manufacturing tools into a suitable software engine, which will become a platform for customers.

## Main activities

- Develop back-end framework to improve the algorithms for our additive manufacturing technology.
- Develop a front-end framework to improve the usability of our algorithms
- Work closely with the R&D team

## Operational Skills Required

- Degree in Computer Science, Mathematics, or relevant work experience
- Deep knowledge of algorithms and data structures
- Knowledge in geometry and mathematics
- Experience with C# and/or Python as a back-end language
- Experience with 3D printing and slicing strategies is considered as a plus
- Knowledge/experience with Additive Manufacturing is considered as a plus
- Affinity with computational design (Grasshopper3D/Rhino) is considered as a plus
- Good communication skills in English

## Soft Skills required

- Organizational skills and self-management of time and activities
- A flexible, open, and stress-resilient mindset.
- Proactivity
- Ability to work independently
- Strong problem-solving skills

## Place of work

- Smart working