

**Job Offer - Toulouse, France**

# Research Engineer (PhD) in Computer Graphics & Geometry Processing

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## About RollingDot

RollingDot was launched in 2024. Powered by its expertise in flexible AI, geometry & 3D visualisation it offers state-of-the-art software solutions to automate point cloud processing – classification and geometric reconstruction.

Two of France's major research institutions have served as the backdrop to the design of our software solution: the Toulouse computer research institute (IRIT) and the French National Centre for Scientific Research (CNRS).

We focus currently on the following use cases:

- Power grid and vegetation management: using AI, we help anticipate the maintenance, identifying components to replace and areas of vegetation to cut back
- Building modelling: using artificial intelligence and our expertise in 3D geometry, we automate the 3D geometric modelling of buildings

We provide the industry with an innovative 3D point cloud processing software solution that constantly evolves to incorporate the most promising results of scientific research.

## The Opportunity

We are looking for a dynamic, social, and methodical PhD in Computer Graphics & Geometry Processing with a strong understanding of point cloud processing and a deep sense of software craftsmanship to participate in the research & development of our solutions.

We are a tight-knit team developing pioneering software and delivering robust, fast, and resource-conscious components to our clients.

## What you will Do

- Work collaboratively with researchers, engineers, and sales to research & develop new software solutions
- Design and implement modern algorithms by writing robust, high-performance code
- Review code on a near daily basis and give detailed, constructive feedback
- Provide leadership to the group and mentorship to junior-level engineers

## What you need to succeed

- PhD in Computer Graphics & Geometry Processing
- Deep knowledge of C++ and its design patterns
- Point cloud processing
- Geometry & mesh processing
- Keep a close eye on scientific developments
- Creativity to find clever solutions to complex problems
- A passion for quality and engineering excellence
- Excellent communication and collaboration skills

## Job location

Our R&D offices are located in Toulouse, France.

## Benefits

From 45 k€ to 60 k€ annually depending on your job-related knowledge, skills, and experience.

## How to apply

Send CV and cover letter at [jobs@rollingdot.ai](mailto:jobs@rollingdot.ai)

