



## Job Description: **Software Development Engineer R&D - CDI**

At Abbelight we are driven to advance biological and biomedical research by making powerful super-resolution microscopy easy and accessible for all users. Together with researchers, biotech labs and medical facilities, we aim to unlock the next generation of imaging tools to understand biology and help improve human health.

**We are looking for a software developer to join our team to design, prototype and build the next generation of analysis tools for single molecule data.**

### **THE ROLE**

You are passionate about developing cutting-edge software solutions and excited to discover the world of an early stage biotech startup. As a key member of Abbelight's research and development team, you will enhance Abbelight super-resolution technologies by conceiving innovative data analysis solutions for quantitative single-molecule imaging.

Some of your missions will be to:

- **Design and develop new algorithms** for point cloud analysis: Clustering, Segmentation, feature extraction from point cloud data, pattern recognition (AI/ML)
- **Build and test frameworks** for quantitative analysis of single-molecule imaging data
- Participate in a **new challenging product development** in the biomedical field, from the proof of concept to the commercialization stage

### **REQUIRED PROFILE / REQUIRED SKILLS**

- **Master's degree (BAC+5) in Computer Science** or an engineering degree in a related technical field
- Strong technical background in software development, testing and debugging
- Solid knowledge of **statistical analysis, machine learning and pattern recognition**
- Excellent organizational and time management skills, accuracy and attention to detail
- Good written and oral communication skills

### **DESIRABLE SKILLS**

- Programming experience in **C++** and **Python**, knowledge of cloud platforms is a plus
- Experience with or knowledge of **biostatistics**
- Basic knowledge of fundamental concepts of **neural networks** and **deep learning**

### **HOW TO APPLY**

This position is a full-time permanent position (CDI). Please send your CV and a brief explanation of why this job is a good fit for you to [cbutler@abbelight.com](mailto:cbutler@abbelight.com).

### **ABOUT ABBELIGHT**

Founded in 2016, abbelight is a dynamic and fast-growing start-up specialized in super-resolution fluorescence microscopy, specifically Single Molecule Localization Microscopy (SMLM). The technology developed by abbelight is based on three areas of expertise: chemistry, optics and computer science. The products developed integrate a constantly evolving know-how and allow abbelight to offer a complete solution, from sample preparation to data analysis, including modular instrumentation that can be adapted to customers' needs. See also: [www.abbelight.com](http://www.abbelight.com)