

Job Title **Research & Development Engineer - Embedded Software**

Job Description

Within the Electronics and Software Division of the Research and Development Department, you will oversee developing part of the embedded software required for the operation of current and future generations of robots.

You will be responsible for all stages of the V cycle, from general specifications to testing, in compliance with the methodologies specific to medical devices.

Your missions will be :

- ✓ Develop concepts and models
- ✓ Carry out feasibility tests
- ✓ Participate in the filing of new patent applications by proposing innovative concepts and validating the technical note of the invention
- ✓ Define the technical specifications of the future product
- ✓ Carry out the design and prototyping
- ✓ Industrialize the design, integrating manufacturing constraints from the start
- ✓ Implement changes throughout the life of the product
- ✓ Participate in technical investigations related to complaints
- ✓ Build your work schedule and ensure its proper integration into project schedules
- ✓ Participate in the continuous improvement of methodologies and associated tools specific to your job

You will also write the technical documentation associated with all these steps and required for regulatory files.

Type Permanent contract

Salary Range From €38.000

Bonus Objective-based

Desired Start Date As soon as possible

Job Location Rouen

Business Trips Frequency Rare

Required Profile & Desired Level of Education

After a minimum of 5 years of higher education in electronics and software, you can justify a **minimum of 3 years' experience in embedded software**, ideally in the medical field according to the process described in the EN 62304 standard or any other field with strong regulatory constraints.

You must master C programming on a microcontroller.

One of the following skills would be a plus:

- ✓ Design of control systems
- ✓ Design of electronic cards
- ✓ Design of graphic interface

You are both creative and endowed with a great rigor and a spirit of synthesis.

Appreciated by your team members, you know how to be autonomous and take initiatives.

English CECRL B2 minimum (C1 recommended).

ABOUT ROBOCATH

Founded in 2009 by Dr. Philippe Bencteux, Robocath designs, develops, and markets robotic assistance solutions dedicated to the treatment of cardiovascular diseases. A player in the robotic transformation of the medical sector, these developments aim to increase the gesture performed thanks to precise technologies that are complementary to current interventional methods.

R-One™ is the first robotic solution developed by Robocath. R-One integrates a bionic, unique and proprietary technology to secure and optimize coronary angioplasty with robotic assistance. This medical procedure consists of revascularizing the heart muscle through the implantation of one or more implants (stents) in the arteries that irrigate it. An operation of this type is performed every 30 seconds worldwide. R-One is designed to intervene with precision and perform very specific procedures, all in an improved work environment. Thanks to its open architecture, R-One is compatible with most coronary angioplasty devices and catheterization rooms.

In a prospective, controlled, and randomized pre-clinical study, the efficacy and safety of R-One was demonstrated with a 100% technical success rate and no major adverse cardiovascular events (MACE). The device was CE marked in February 2019 and its clinical application started in September 2019. The solution is now present in Europe and Africa.

Ultimately, Robocath ambitions to become the world leader in vascular robotics and to develop remote vascular emergency management (VEM) to ensure the best care path for all. Based in Rouen, France, Robocath has more than 70 employees.