

Job Title

**Electronic & Software Engineer (M/F)**

## Job Description

Within the Research department, in a multidisciplinary team, you will be in charge of the realization of part of the software necessary for the operation of future generations of Robocath products, in particular the robotics platform.

You will ensure all the steps of phase 0 in compliance with the methodologies specific to medical devices.

You will participate in

- The development of concepts and models
- The realization of feasibility tests
- The definition of the technical specifications of the future product
- The realization of the design and prototyping
- The drafting of design reviews
- The FMECA process

## Type

Permanent contract

## Salary Range

€35.000 to €45.000 (+ €2.000 to €3.000 bonus)

## Desired Start Date

Mars 1<sup>st</sup> 2021

## Job Location

Rouen

## Business Trips Frequency

**Rare**

## Required Profile & Desired Level of Education

The start-up spirit attracts you and you are eager to join our adventure in the service of a very innovative project in the field of health.

After a minimum of 5 years of higher education in electronics and software, you can justify 5 years of experience in a design office according to a V-cycle process or a standard such as EN62034 or DO178C, ideally in the medical field or any other field meeting strong regulatory constraints would be a plus.

You must be able to program in C on a microcontroller.

You are both creative and endowed with great rigor and a spirit of synthesis. You know how to justify your technical choices and demonstrate the innovative principle of your solutions and the means to apply them.

The following skills are a plus:

- Design of analog and/or analog electronic boards.
- Design of electronic architecture.
- Mastery of programming techniques for critical embedded real time software on microcontroller.
- Design of modules dedicated to control-command.

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

You are at ease in English, both orally and when writing a technical document.

## 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 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 50 employees.