JOB DESCRIPTION

Job Title	**Research & Development Engineer**

Job Description	Within the R&D Department and integrated into the Electronics & Software Division, you will oversee the development of part of the necessary software for the operation of future generations of Robocath products, particularly the robotic platform.
	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.
	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
- ✓ Industrialization of the design, integrating manufacturing constraints from the start
- ✓ The implementation of changes throughout the life of the product
- ✓ Technical investigations related to complaints

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

Type	Permanent contract
Salary Range	From €37.000
Bonus	From €3.000
Desired Start Date	As soon as possible
Job Location	Rouen
Business Trips Frequency	N/A
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 service of health.
	After a minimum of 5 years of higher education in electronics and software, you have 3 to 5 years of experience in a design office according to a V-cycle process or a standard such as EN62304 or DO178C, ideally in the medical field or any other field with strong regulatory constraints.
	You must master C programming on a microcontroller.

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 60 employees.

You are both creative and endowed with a 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:

- ✓ Mastery of programming techniques for critical embedded real-time software on microcontrollers
- ✓ The implementation of a TCP/IP stack
- ✓ Design of modules dedicated to control and command
- ✓ Design of analog and/or digital electronic boards

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.

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