

## Job Description

Your mission will be to develop embedded software for a variety of electronic circuits for medical radiology equipment ranging from generators for medical imaging to operator consoles.

You will report to the Software manager and you will have the opportunity to work with a team of passionate and multidisciplinary developers using leading-edge tools such as Visual Studio, Eclipse, STM32CubeIDE and TrueSTUDIO.

You will write quality code in C, C# or Python in real-time  $\mu$ C/OS-II and  $\mu$ C/OS-III. You will work with Bitbucket Git code management through local visualization by SourceTree or Git Bash. EMD is also using the Atlassian suite such as Confluence and Jira/Zephyr for the efficient management of its software versions.

### Responsibilities:

- You will work in close cooperation with the Hardware team and you will have the opportunity to develop code for the STM32 or 68HC12 microcontroller families.
- You will actively participate in the definition of the software architecture.
- You will work on a multitude of projects such as asynchronous motor control, control algorithms for digital signal processors, communication protocols such as CANopen, SPI, USB, I2C, etc.
- You will write code for PC applications in C# based on WPF, used primarily for the configuration and control of the generators.
- You will write code to manage the Inverter's operation, the tube's anode heat, the control of the dose to the patient.

### Qualifications: (equivalence will be accepted at EMD's discretion)

- Bachelor in Electrical Engineering;
- Fluency in English and functional French;
- Expertise in C for embedded systems;
- Experience in RTOS a plus;
- Experience in C# or other object-oriented programming language a plus;
- Experience in DSP & ARM programming a plus.

### Experience:

- Minimum 2 years as embedded software designer