Open Position: Junior C++ Developer

SPARC Industries Sàrl is a young Luxembourgish start-up which develops R&D services & products for space & non-space sectors. We are looking for a C++ developer responsible for building applications used for scientific computing. Specifically, for a plasma simulation tool primarily utilized to analyze space applications, such as electric space propulsion systems. The applications currently run on desktops but will be ported to server client architectures. Your primary role will be to develop applications for numerical simulations, data analysis, and visualization.

The work environment is typical for a start-up: Communication paths are short, hierarchy is flat, and team composition is very heterogeneous.

Responsibilities:

- Design, build, and maintain efficient, reusable, and reliable C++ code
- Implement performance and quality modules
- Identify bottlenecks and bugs, and solve them
- Help maintain code quality, organization, and automation
- Support the supervision of students.
- Direct customer contact (e.g. ESA)

Requirements:

- Proficiency in C++, with good knowledge of the language specification
- Thorough knowledge of the standard library, STL containers, and algorithms
- Good understanding of memory management in non-garbage collected environments
- Knowledge of writing native modules for high-level language would be a plus (such as Python)
- Familiarity with language tools, such as Valgrind, is beneficial
- Implementation of automated testing platforms and unit tests
- Proficient understanding of code versioning tools (Git)
- 0-2 years of experience
- Interest in computational science
- Advanced mathematical knowledge is appreciated
- Good communication skills in English

If you are interested, please send your CV and application documents to info@sparc-industries.com. The position is to be filled in May/June 2018.

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