Numerical Methods Engineer at Multiwave Innovation (www.multiwave.fr)

Job brief

We are looking for an engineer with experience in commercial software development of numerical methods for engineering, more specifically finite element methods and/or spectral element methods. The goal is to lead the development of Multiwave’s solvers. Multiwave has developed a spectral element code solving various PDEs and with the ability to construct any new PDE ad hoc. The solver is used in the design of medical devices using electromagnetic waves to diagnose and treat various conditions as well as in the design of RFID technology and optical filters.

Job location

- The selected candidate will work at the company’s office in Marseille in the South of France

Responsabilities

- Refactor existing code
- Implement new boundary conditions for various physics
- Implement various sources
- Responsible for code good practices, documentation and readability
- Setup unit tests for all parts of the code
- R&D in novel numerical methods that could be applied to our applications. This will required a close communication with our physicists and engineers.

Requirements

- Experience in development of spectral or finite element codes
- Experienced python programmer
- Good knowledge of git version control system
- Linux operating system
- Preferably PhD in engineering, physics, math or computer science.
- Fluent in english.
Start date

- 1 July 2017 or as soon as possible thereafter.

Compensation package

- Full time employment contract
- Estimated package circa EUR 30k Net of social security charges.
- Final compensation package will be agreed on a case by case basis.

Contact details: careers@multiwave.ch