Software Engineer

Simbeyond accelerates the development of advanced materials and high-tech devices used in state-of-the-art displays, lighting and signage applications. We provide unprecedented software tools for the development of organic electronic devices, such as OLEDs, that replace a large part of the costly and time-consuming experimental efforts with computer simulations. The unique approach we provide allows our customers to analyze, predict and improve device performance. This leads to a shorter time-to-market and reduced R&D costs for the electronic devices of today and tomorrow.

Key Responsibilities:

Simbeyond is looking for a talented software engineer with a passion for high-performance computing, and affinity with physics and simulations to strengthen our young and dynamic team in Eindhoven. The job involves the following responsibilities:

- Writing and improving high-performance scientific simulation software
- Collaborating with our device physicists to implement new features
- Engage in direct interaction with users to understand and formalize requirements
- Developing scripts and user interfaces to optimize the user's workflow
- Verification and validation of existing code
- Supporting the other team members with your software engineering skills and insights
- Coordinating and extending the integration of the web-based user interface and the C++ simulation code
- Acceleration of existing code e.g. via GPU computing
- Shaping our devops and continuous delivery/deployment workflow

Skills:

- Proficient in modern C++ (C++11, C++14)
- Familiar with Git version control and CMake build system
- Experience with high performance/scientific computing
- Experience with using automated testing frameworks and benchmarking
- Familiar with Bash and UNIX/Linux in general
- Experience with Ruby on Rails, JavaScript, and Python is a plus
- Experience with cloud computing and the Amazon Web Services API is a plus
- Accustomed to OpenGL and GPU programming (OpenCL/CUDA) is a plus

Qualifications:

The ideal candidate has a HTS/BSc or higher degree in Computer Science or a similar field and affinity with physics and simulations. Flexibility, excellent organizational and communication skills are required, as well as a mindset for quality and good problem solving skills. The candidate should be fluent in English, both in written and verbal form.

What we offer:

We offer an exciting opportunity to join a young and dynamic environment in Eindhoven, the Brainport of The Netherlands, in a team of driven professionals. You will be part of a multidisciplinary team where you will interact with physicists, chemists and computer scientists on a daily basis. Our informal company culture gives ample opportunity for personal and professional development. At the same time, you will be helping to shape our fast growing business and have the opportunity to interact with world-leading academic groups, and chemical and electronics companies. Are you the new team member we are looking for? Send your CV and motivation letter to jobs@simbeyond.com or call Siebe van Mensfoort at +31 (0) 6 3346 1600. For more information, visit www.simbeyond.com.