Computational physicist

Simbeyond is looking for an enthusiastic and technically skilled computational physicist to join our international team and help grow our young and dynamic company in Eindhoven.

Responsibilities:

The job involves the following key responsibilities:
- Develop and validate new models for simulating physical and chemical processes happening at the nanoscale in electronic devices
- Implementing the models in advanced scientific simulation software prototypes
- Work together with software engineers to implement, test and validate of high performance and parallelized software products
- Explore new simulation methods for expanding Simbeyond's simulation software portfolio

Skills:
- Background in numerical methods, computational physics and simulations
- Experience with implementing advanced ODE solvers and root finding methods (e.g. Runge-Kutta, Newton-Krylov)
- Affinity with electronic device and battery physics is a plus
- Proficiency in English both in written and verbal form is a must
- Experience with Python programming and GNU/Linux in general is required, C++ is a plus plus

Qualifications:

The ideal candidate has an MSc degree or higher in a relevant field (mathematics, physics, computer science) and experience in simulations, preferably in the field of batteries, semiconductor device physics, or optics. One or more years of experience in an industrial environment. A team worker with a passion for research, technology, and the ambition to develop state-of-the-art simulation software solutions. Good presentation and writing skills are required, as well as a quality mindset 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. 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. Are you the new team member we are looking for? Send your CV and motivation letter to jobs@simbeyond.com. For more information, visit simbeyond.com.

About Simbeyond:

Simbeyond provides software solutions that accelerate the development of advanced materials and high-tech devices as used in state-of-the-art technology. In the domain of organic electronic devices (e.g. OLEDs), batteries and nanolithography, we provide unprecedented software tools that replace a large part of the costly and time-consuming experimental efforts with computer simulations. This unique approach allows our customers to analyze, predict and improve device performance, leading to a shorter time-to-market and reduced R&D costs for the tech of today and tomorrow.

Salary indication: 3100€ - 4300€ gross per month