



# 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 high performance and parallelized software products.
- Explore new simulation methods for expanding Simbeyond's simulation software portfolio.
- Report and discuss progress with the lead physicist.

## Skills:

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

## Qualifications:

The ideal candidate has an MSc degree or higher in a relevant field (mathematics, physics) and experience in simulations, preferably in the field of batteries, semiconductor device physics, or optics. Computer science and/or computational physics background/education is regarded highly for this position. The candidate should have a product oriented mindset, a passion for research, technology, and the ambition to develop state-of-the-art simulation software solutions that have direct impact towards solving concrete industrial challenges. Good presentation and writing skills, as well as a quality mindset and good problem solving skills are highly valuable for this position.

## 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 in consideration with your professional goals. At the same time, you will be helping to shape our fast growing business.

Highlights of our benefits package includes:

- A competitive salary with a range between 3100-4100 € per month.
- A work-from-home allowance and an amount of 30 vacation days based on a full-time contract.

Are you the new team member we are looking for? Send your CV and motivation letter to [jobs@simbeyond.com](mailto:jobs@simbeyond.com). For more information, visit [simbeyond.com](http://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.