



## R&D Experts for Simulation Software Engineering

*in Integrated Photonics, Fiber Optics and Optical Communications*

VPIphotonics, a premier provider of professional simulation software for integrated photonics, fiber optics, and optical communication systems offers positions in its software product development facility in Vilnius, Lithuania. We seek R&D experts with various experience levels in different focus areas:

### Responsibilities

- Development of new and enhancement of the existing mathematical models for modern photonics applications, such as fibers, lasers, photonic integrated circuits, transceivers, etc.
- Contribution to the software product development, including product prototyping, specification, testing, documentation and applications.
- Contribution to externally funded R&D projects.
- Co-publication of scientific and engineering results at conferences and journals.

### Required Skills & Experience

- A master's degree in physics or electrical engineering. A Ph.D. degree or equivalent professional experience would be a plus.
- A solid theoretical background in one or several areas: optics and photonics, signal processing, mathematics and numerical methods, quantum theory, information theory.
- Understanding of optical communication concepts and the underlying technologies.
- Programming experience in Python, Matlab, and/or C++.
- Fluency in English. Knowledge of Russian is a plus.
- Experience in professional software development process is a plus.
- Practical experience in a lab or field is a plus.
- Experience with VPIphotonics design tools is highly preferred.

Further, we envision that the successful candidate will have

- Strong analytical and problem-solving abilities
- Self-motivation, ability to conduct independent research and development
- Solid writing and presentation skills
- Ability to work in a team

Join our team to work alongside an expert team of modelers and designers addressing the demand of tomorrow's research and industry needs. VPIphotonics will provide comprehensive product training, flexible work hours, and a rewarding international career path. We can consider only candidates with valid Lithuanian Work Permit.

Salary will be negotiated depending on a candidate's qualifications and experience. If you would like to be considered, please send your resume to [jobs.devel@VPIphotonics.com](mailto:jobs.devel@VPIphotonics.com).

### About VPIphotonics

VPIphotonics sets the industry standard for end-to-end photonic design automation comprising design, analysis and optimization of components, systems and networks. We provide professional simulation software and professional consulting services. Our award-winning solutions are used extensively in research and development, and by product design and marketing teams at hundreds of corporations and over 160 academic institutions worldwide. For more information, visit [www.VPIphotonics.com](http://www.VPIphotonics.com)