



Senior Modeling Expert (Integrated Photonics)

VPIphotonics, a premier provider of professional simulation software for classical and quantum optical communication systems, integrated photonics, and fiber optics, offers a position in its headquarters in Berlin, Germany. We seek a Senior Modeling Expert to lead the development of simulation models and algorithms for integrated photonics applications and contribute to national or international R&D projects.

Responsibilities

- Drive technical leadership in the modeling of integrated photonics applications.
- Contribute to the simulation software product development.
- Lead participation of VPIphotonics in external R&D projects.
- Contribute to publications at conferences and in journals.

Required Skills & Experience

- Ph.D. degree in physics or electrical engineering.
- Solid theoretical background in physics and mathematics.
- Experience in modeling optoelectronics and integrated photonics applications for several years.
- Experience with foundry-specific photonic design processes is a plus.
- Experience in Python or Matlab.
- Excellent communication, writing and presentation skills.
- Solid list of publications in leading international journals.
- Experience in participation in cross-institutional projects is a plus.

Further, we envision that the successful candidate will

- value teamwork and have leadership skills,
- have strong analytical and problem-solving abilities,
- be able to conduct independent research and development,
- be ready to relocate to Berlin, Germany (foreign candidates)

Join our team to work alongside an expert team of modelers and developers addressing the demand of tomorrow's research and industry. VPIphotonics will provide comprehensive product training, flexible work hours, and a rewarding international career path. We can consider only candidates with valid EU 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.g@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 at over 160 academic institutions worldwide. For more information, visit www.VPIphotonics.com