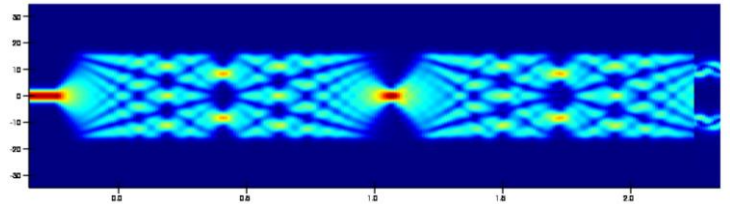


Internship / BSc. or MSc. Thesis

Design & simulation of novel photonic building blocks

- Full-time / part-time / remote
- Duration: 3 – 6 months



vario-optics is a leading manufacturer of planar polymer waveguides. Based on its singlemode and multimode platforms, a variety of photonic building blocks can be manufactured. vario-optics is constantly seeking to expand its portfolio and test novel device designs.

Within this project, novel photonic building blocks such as $n \times m$ multimode interferometer (MMI) couplers, arrayed waveguide gratings (AWGs) or optimized waveguide bends and splitters shall be investigated by means of simulations.

Your Tasks:

- Literature research on design principles of complex photonic structures
- Creation of models and simulation environments
- Identifying & optimizing relevant performance parameters
- Creating design files suitable for follow-up manufacturing
- Project documentation

Your Profile:

- Experience with optical Simulation software like Zemax, Lumerical or Comsol
- Background in optics/photronics preferable
- Motivated to solve technical challenges
- Independent, careful and reliable
- Good communication skills

Our Offer:

- Opportunity to gain experience in high-tech industry
- Hands-on experience with optical systems and technologies
- Working in a dynamic startup environment