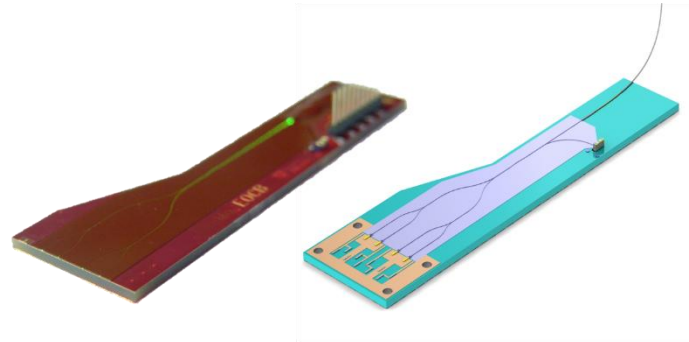


Internship / BSc. or MSc. Thesis

## Investigation of performance & stability of optical fiber connections to polymer waveguide systems



Duration: 3 – 6 months

vario-optics is a leading manufacturer of planar polymer waveguides. An interesting application of its technology is the use of on-chip interferometers, e.g. as optical gyros or vibrations sensors. Thanks to the small footprint and reduction of movable parts, such sensor subsystems are extremely powerful and compact, yet cost effective.

Within this project, a thorough test campaign shall be conducted to investigate the stability & performance of optical fiber connections to polymer waveguide systems in statistically relevant quantities. For this purpose, an optical probing setup shall be built and tested using pre-manufactured samples.

### Your Tasks:

- Planning the test campaign (project coordination, timeline, definition of parameters)
- Adapting the optical coupling setup (precision mechanical stages, software)
- Performing optical coupling tests with different fiber arrays to pre-manufactured chips
- Data analysis and project documentation

### Your Profile:

- Background in optics/photonics and/or microtechnology
- Experience with hands-on optic lab work is a plus
- 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
- Working in a dynamic startup environment