

Jena, 6 November 2023

**Student Job offer at siOPTICA:  
Support in optical simulation with LightTools  
8 hours/week - 6 months**

siOPTICA is a Jena based company specialized in design and production of switchable privacy viewing mode displays. Our solution, sioSHIELD, is based on two light guides (one for the public viewing mode, the second for the privacy one) placed on top of each other, below an LCD panel. The design and production of the public lightguide is the main challenge, its optical design must lead to a light distribution free of optical artefacts, since every foil placed on top of it would scatter light and reduce the privacy effect. Optical simulations are performed to optimize our design, perform tolerancing, understand the light guide's behaviour, and implement new concepts. The illumination calculation and analysis are based on the non-sequential ray tracing-based software LightTools from Synopsys.

**Your tasks:**

- Support our Team with LightTools simulations, which includes:
  - Model building.
  - Set up and batching of simulations.
  - Process of the results.
  - Documentation of the results.

**Your Profile:**

- Student of optics or physics, specialized in the field of optics/photonics/illumination.
- Synthesis way of thinking, self-motivated and self-driven working approach.
- Knowledge about programming in particular Python, as well as display technology are a plus.

**We offer:**

- Being part of our outstanding research and development team, in a multidisciplinary and international environment.
- Take in hand (or improve your skills) non-sequential ray tracing simulations via the software LightTools.
- Fair wage und flexible working condition.
- Working on client projects with renowned customers.

**Your contact:**

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Are you interested in this position? We are looking forward to meeting you.  
Send your application electronically to the contacts above.