SUPER – Stuttgart University Program for Experiencing Research
Project Information

Institute's Information

Name of Institute: Institut für Technische Optik (ITO)
Contact Person: Prof. Alois Herkommer
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Duration of Project/Number of Students

June/July: 1
June/July/August: 0
Number of Students: 1

Name of Project: Topics in optical metrology and optical design

Beneficial Skills & Knowledge

Basic Optics, Mathematics, Programming, Experimental Skills
Applied Mathematics: Mathematical skills, Experience in MatLab or Python programming is beneficial, but not required
Optical Design: Basic experience in optical design and simulation software, e.g. in ZEMAX, CodeV, or any other design-software is beneficial.

Description of Work

The institute offers a broad range of topics in optical metrology (ranging from surface metrology, to holographic methods) and optical design and simulation (ranging from imaging systems to illuminations systems or wave-optical simulations). In all research groups novel methods and/or systems are being developed on the basis of optical design software, or simulations, or in the Lab. Information is available on our webpage. Depending on the individual student skills and interest we will define a project within this area. Therefore suggestions about own research interests (theoretical, experimental) are most welcome.