

We are looking for students to work on free-space (wireless) laser communications

in the fields of electrical engineering, communications engineering, physics or similar as student assistants and for BSc, MSc or diploma theses

for one or more of the following tasks

- Planning, preparation, and execution of system tests and experiments in our free-space optical laboratories
- Software programming (e.g. with C, Python, Matlab) for device control, data analysis, and simulations
- Hardware development (design, simulation, FPGA programming in VHDL)

We offer

- A wide variety of challenging activities in a highly interesting scientific environment in the field of optical free-space communications with indoor and outdoor demonstrations
- Opportunities for writing a Bachelor's or Master's thesis

We expect

- Good to very good degrees
- Professional commitment
- Team spirit, ability to work independently and autonomously
- Experience in one or more of the tasks (see above) is advantageous



The **Fraunhofer Heinrich-Hertz Institute** is strongly committed to innovation in the field of optical communications. In particular, it is of interest to establish free-space (wireless) optical communications as game-changing applications in mobile, terrestrial or satellite networks.

If you are interested, please contact

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<https://www.hhi.fraunhofer.de/en/departments/pn/research-groups/free-space-optical-systems.html>