2-year International Master’s Program
Prerequisites: B.Sc. Degree in Optics & Photonics, Natural or Engineering Sciences

Specializations
- Photonic Materials & Devices, Quantum Optics & Spectroscopy, Biomedical Photonics
- Optical Systems, Solar Energy

Benefits
- Industry Internships, Networking, Intensive Lab Training, Language Courses & Business Etiquette Training

KSOP Scholarship Program
Scholarships Available for Outstanding Applicants

Program Language English | Start October | Application Deadline April 30

Our Premium Industry Partners

Voices of Students & Alumni

»I really like the internationality of the program. The fact of having colleagues from so many different science and/or engineering backgrounds and having the opportunity to work with them and learn how they approach finding solutions enhances my expertise all the time.«
Javier Mauricio Bruges Martelo completed his master’s thesis at ZEISS

»What I like about the program is the combination of theory and practice. Practical experience is highly important as all the theory is worth nothing if you can not apply it to something real.«
Lisa Kadner is now working at Polytec GmbH as Application Engineer

Our Premium Industry Partners

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Contact Us & Apply

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Apply until April 30!

Light Up Your Future!

Study Optics & Photonics
an International Master’s Program at KSOP Graduate School at the Karlsruhe Institute of Technology (KIT)
Optics & Photonics are key technologies for the 21st century. As enabling technologies for high-end industrial applications, they drive research in physics, chemistry, biology, and engineering.

In 2006, the Karlsruhe School of Optics & Photonics (KSOP) was founded as the first Graduate School of the Karlsruhe Institute of Technology (KIT) under the German “Excellence Initiative”. In 2021, KSOP became sustainably funded through the KIT by the Federal Ministry of Research and Education (BMBF) and the State of Baden-Württemberg.

KSOP provides a multidisciplinary environment for first-class research and education as well as for the generation of innovative technologies in Optics & Photonics. Comprising both Master’s and Doctorate programs, the educational concept is designed to qualify graduates for accelerated careers at world leading academic institutions and in high-tech industries.

Today, KSOP’s membership is comprised of over 900 Master students, doctoral researchers and alumni from 70 different countries.

The 2-year Master’s program in Optics & Photonics is taught in English. Applicants are required to hold a Bachelor’s degree in engineering or natural sciences to become a part of the interdisciplinary Master’s program. After completing the fundamental introductory courses and core subjects in the first two semesters, each student chooses a research specialization. During their studies, Master students come into direct contact with KSOP research groups.

Graduates of the Master’s program can apply for the KSOP Ph.D. Program to gain the scientific and technical knowledge, leadership and management skills which are often required for a successful career in industry.

KSOP prepares students and doctoral researchers for the labor market of the German and worldwide Optics & Photonics industry. The close cooperation to industry partners is of high value for industry on the one hand and KSOP students and doctoral researchers on the other hand. By gaining experiences in well-known international companies via internships or Master’s thesis projects, students get in contact with potential future employers and prepare for their professional careers.