

# Light Up Your Future!

## Master in Optics & Photonics



**KSOP**

Karlsruhe School of Optics & Photonics

# Why Optics & Photonics - Why KSOP



## 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 almost 1,000 Master students, doctoral researchers and alumni from 70 different countries.**



More about the KSOP M.Sc. Program: [www.ksop.kit.edu/msc\\_program.php](http://www.ksop.kit.edu/msc_program.php)

**International Orientation**



**Interdisciplinarity**



**Research**



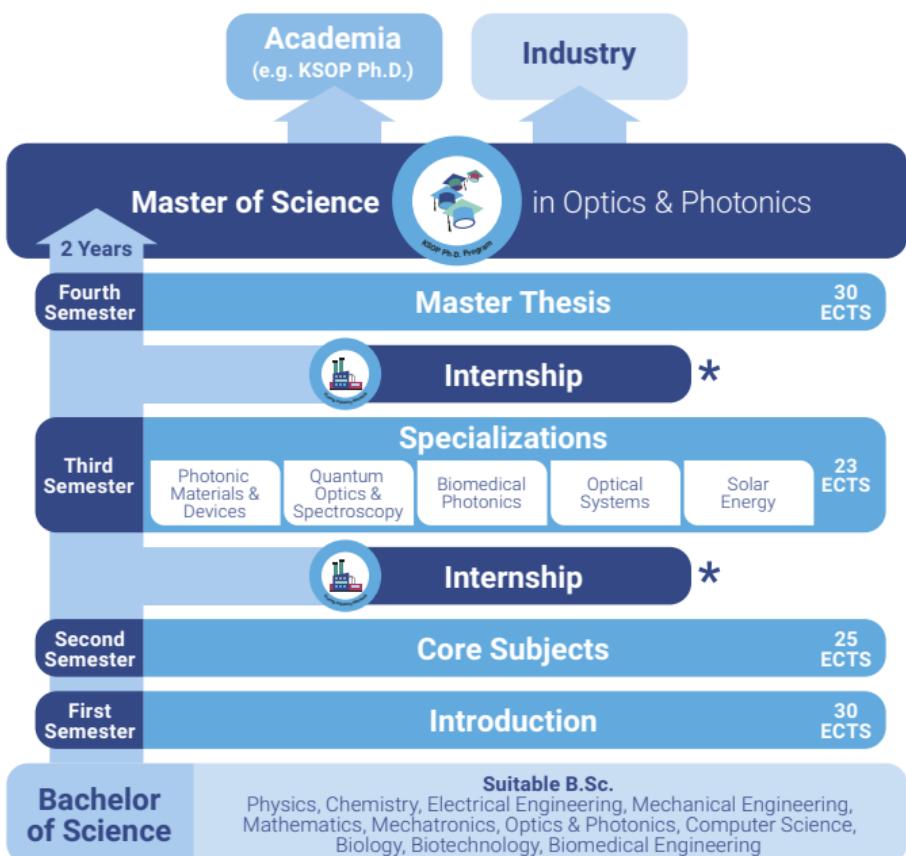
**Study with the Best**



# An Interdisciplinary Master's Program

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.

## Structure:



**The research and educational concept reflect the multidisciplinary research among natural scientists and engineers.**

More about KSOP M.Sc. curriculum: [www.ksop.kit.edu/curriculum.php](http://www.ksop.kit.edu/curriculum.php)



### Publications



### Patents



### Awards



### Hall of Fame



# The Industry Network

The close cooperation to industry partners is of high value for industry, KSOP students, and doctoral researchers. KSOP students and researchers have an exclusive access to leading optics and photonics companies. Through industry lectures, internships, events, and master's thesis opportunities KSOP students gain valuable insight into industry and what it's like to work in Germany.

## Our Current Premium Partners:



**BOSCH**

Technik fürs Leben



## Benefits for KSOP Students:



Practical  
Experiences &  
Industry Insights



Soft Skills &  
Cultural Integration



Building Career  
Networks

More about industry benefits: [www.ksop.kit.edu/students\\_industry.php](http://www.ksop.kit.edu/students_industry.php)



## Voices of Students & Alumni



**Maximilian Büttner**

is now working at TRUMPF  
as Executive Assistant to  
Head of R&D

"For me, KSOP was all about opportunities. The opportunity to study at one of the most renowned universities in Germany in a modern environment, with international fellow students and a close practical focus and close exchange with industry partners. With its wide range of specialization options, the Master's programme offers the right courses for everyone. Above all, the interdisciplinary background of the fellow students enriches the program immensely."



**Pubali Chaudhury**

is currently pursuing  
her PhD in Physics

"KSOP was more than just a master's program for me – it was a gateway to discovery. It provided me with the opportunity to delve into the very foundations of physics while engaging with cutting-edge research at the forefront of photonics. The dynamic international collaborations and the inspiring guidance of esteemed professors broadened my perspective not only on science but also on the power of knowledge exchange. I am truly grateful for this transformative journey."

### Perfect Location



### Campus Housing



### Strong Industry Network



### Study & Career Guidance



# 2022 Employability Ranking



GERMANY  
EUROPE  
WORLDWIDE

## Key Data & Benefits



### 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**



### Ph.D. Opportunity

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.



More about the KSOP Benefits: [www.ksop.kit.edu/reasons-for-ksop.php](http://www.ksop.kit.edu/reasons-for-ksop.php)

#### International Orientation



#### Research



#### Scholarships



#### PhD Program



# Apply from December - September each year!

**NEW:** Students can now benefit from applying during one of the three early deadlines as well as the regular admission deadlines for a start in October of each year. **This increases the chance to be admitted earlier, allowing ample time to secure a visa, accommodation, finances, and more!**

## Submit your application

### Rolling application deadlines

**1<sup>st</sup> step**

January 8	1 <sup>st</sup> Early Admission
February 19	2 <sup>nd</sup> Early Admission
March 26	3 <sup>rd</sup> Early Admission
June 15	Regular Admission for non-EU applicants
September 15	Regular Admission for EU and German applicants

The sooner you apply, the earlier you receive your decision

**2<sup>nd</sup> step**

Your application will be reviewed

**3<sup>rd</sup> step**

Promising candidates will be interviewed by the Admissions Committee

8 weeks after deadline

# Admission Decision

## Contact:

If you have any inquiries, you can reach us at:

### Karlsruhe School of Optics & Photonics (KSOP)

Graduate School of the  
Karlsruhe Institute of Technology (KIT)

Phone +49 (0)721 608 47880  
Fax +49 (0)721 608 47882

Schlossplatz 19 · 76131 Karlsruhe · Germany

[www.ksop.kit.edu](http://www.ksop.kit.edu)



**Nina Becker**

M.Sc. Program Manager  
+49 721 608 47693  
[msc@ksop.kit.edu](mailto:msc@ksop.kit.edu)



© Karlsruhe School of Optics and Photonics  
Edition 01 / 26 - Content might be subject to change

**Follow and connect with us:**