



Karlsruhe School of Optics & Photonics Afraid of the dark? Study Optics & Photonics in Germany!

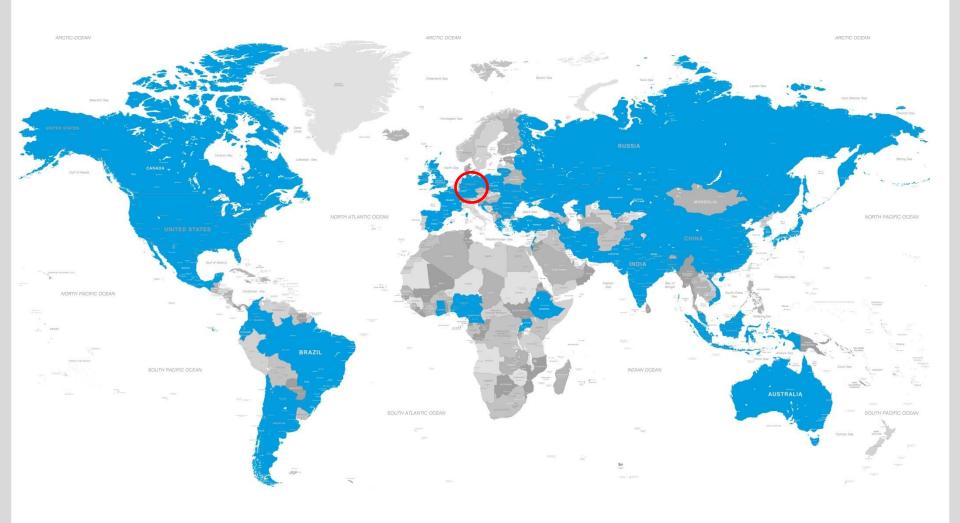
Miriam Sonnenbichler | Feb. 1, 2016



KSOP in the Heart of Europe

Afraid of the dark? Study Optics & Photonics!



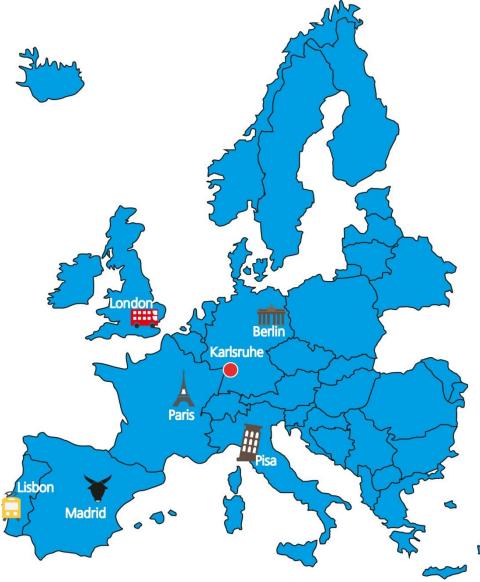




KSOP in the Heart of Europe

Afraid of the dark? Study Optics & Photonics!











Karlsruhe School of Optics & Photonics















KSOP in the Heart of Europe

Afraid of the dark? Study Optics & Photonics!







Karlsruhe Institute of Technology (KIT)

Overview on Statistics and Subject Areas





24,000 Students

360 Professors

9,200 from which 6,000 Researchers

Physics

Chemistry & Lifesciences

Electrical Engineering and Information Technology

Mechanical Engineering

Institute of Applied Physics

Institute of Biomedical Engineering
Institute for Information and Processing Technology
Institute of Inorganic Chemistry
Institute for Measurement and Control Systems
Institute for Meteorology and Climate Research
Institute of Micro- and Nanoelectronic Systems
Institute of Microstructure Technology
Institute of Nanotechnology
Institute of Organic Chemistry

Institute of Photonics and Quantum Electronics

Institute of Physical Chemistry

Institute for Theoretical Solid State Physics

Institute of Toxicology and Genetics

Light Technology Institute

Zoological Institute



Karlsruhe Institute of Technology (KIT)

Overview on International Rankings and Famous Alumni



German TU9 University



One of nine excellent, leading Universities in Engineering and Natural Sciences High standard education and excellent job perspectives

QS World University Rankings (2016)



47 of 398 in Subject Area Engineering and Technology

34 of 400 in Subject Area **Natural Sciences**

Times Higher Eduation Ranking (2016)



165 of 401 Universities Worldwide











An International Graduate School within KIT

Excellence for Optics & Photonics Research









Karlsruhe School of Optics & Photonics

Founded in 2006 within the German "Excellence Initiative"

Excellence status confirmed by the DFG in 2012

Cooperation of 16 KIT institutes and external partners

- ~ 100 Ph.D. candidates, ~120 Ph.D. Alumni
- > 130 M.Sc. students, > 150 M.Sc. Alumni



KSOP Mission and Vision

Heading towards brilliant International Alumni







Excellent graduate education

Multidisciplinary training concept

Excellent research through cooperation with several institutes und faculties

International visibility of research and teaching

Close cooperation with industry



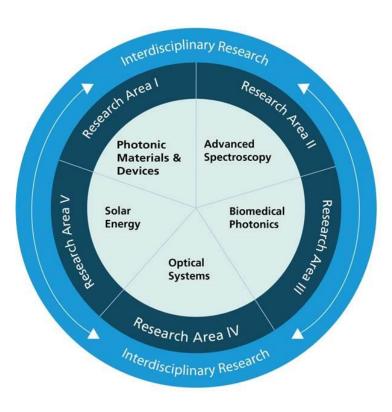




KSOP Research Structure

Covering the most promising Optics Fields





RA I

- Metamaterials
- Telecommunication Devices
- Luminescent Nanoparticles

RÁII

- Micro-photoluminescence Spectroscopy
- Time-resolved Spectroscopy
- Environmental Spectroscopy

- Super-resolution Microscopy
- Optical Biosensing
- Tailored three-dimensional Scaffolds for Cell Culture

RĂIV

- Autonomous Vehicles
- High Bit-rate Optical Communications
- Lab-on-a-chip Systems

ŽΥ

- Thin Film Photovoltaics
- Organic Solar Cells
- Light Management

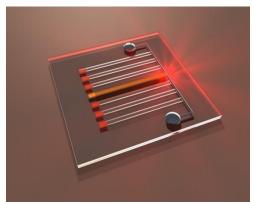


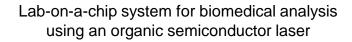
KSOP Research Structure

Covering the most promising Optics Fields











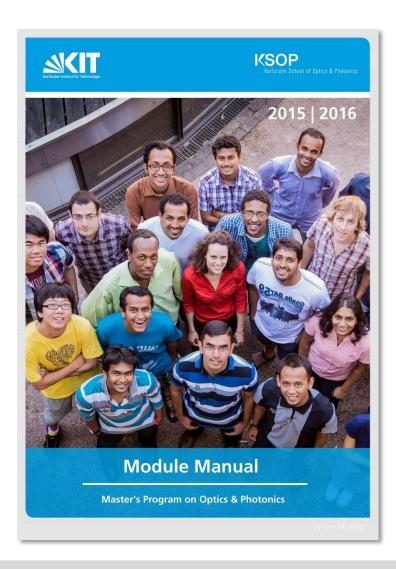
Flexible photovoltaic module based on organic semiconductors



KSOP Master Program

An Interdisciplinary Study Program





2-years M.Sc. Course in Optics & Photonics

40 Students per intake

International Flair: Over 30 Nationalities

Completely Taught in English

No Tuition Fees

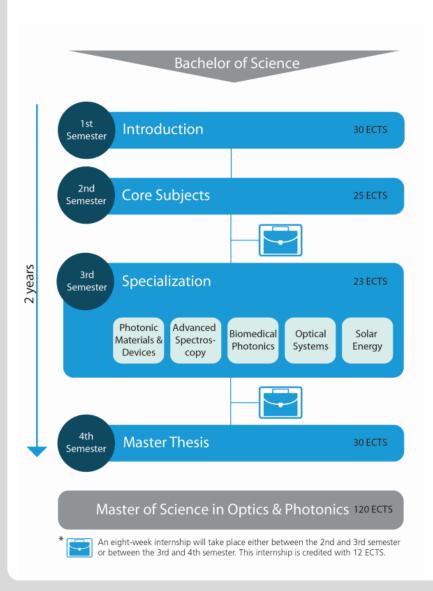
Scholarships available



KSOP Master Program

An Interdisciplinary Study Program





Start: every winter term

Bachelor degree in natural or engineering sciences:

- ✓ Physics
- ✓ Chemistry
- ✓ Electrical Engineering
- ✓ Mechanical Engineering
- ✓ Mathematics (with minor in physics)
- ✓ Computer Science (with minor in mathematics)
- ✓ Biology, Biotechnology, Biomedical Engineering (with minor in physics)

Apply until
April 30
every year



Scholarship & Industry Internship Program



Outstanding Scholarship Program

for approx. **five** of the most promising students per year **up to 800** € for a max. duration of two years

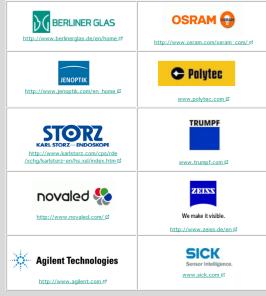
Cooperative Initiative

German Federal Government (BMBF), 10 companies from the optics & photonics industry

Objective

Attract students to study in the field of O&P and **qualify** them in the best way

Industry Internship Program







Erasmus Mundus Europhotonics

Around the World at almost the Speed of Light









European Master Program

2-years study of Optics & Photonics

Studies at three excellent universities in Marseille, Karlsruhe and Barcelona

Multiple M.Sc. Degrees possible

Industry Internship Program

Scholarships available

Start: Every Winter Term

Apply until
March 1st
2016

www.europhotonics.org



Looking for a bright future?

Do Research in Optics & Photonics!









3-years Doctorate Program in Optics & Photonics

Scholarship Program

Working Language: English

Mentoring Program

Additional Management, Technical, Scientific & Key Competency Modules, Networking

Optional: MBA Fundamentals Program



KSOP Modular Training

Preparing for Careers in Academia & Industry









Management Modules

- Entrepreneurship
- Human Resource Management
- Business Strategies

Technical Modules

- Micro and Nanotechnology Laboratory
- Laser Laboratory
 Work
- Laser Materials Processing

Personal Key Competence Modules

 Scientific Writing & Presentation

Scientific Modules

- Summer Schools
- Conferences
- Symposia



Looking for a bright future?

Job Perspectives after Graduation at KSOP









For example, our graduates work as...

Post-docs in academia

Application & Development Engineers

Optical Designers

International Project Managers

Software Developers and System Architects

Quality and Product Managers

Technical Sales & Service Engineers



KSOP Support for International Students

Accommodation, Orientation, Consultation







KSOP Support for International Students

Accommodation, Orientation, Consultation









Students support and services include...

Campus Accommodation (rooms, apartments)

Consultation on visa, bank account, insurances, etc.

Company excursions

Application workshops, intercultural trainings

Organized get-togethers



Active Student Life in Karlsruhe

Student Networks









Part of worldwide network of student chapters Optical Society of America (OSA) International Society for Optics & Photonics (SPIE)

Optics Students Karlsruhe: OSKar

Support, Networking, Events, Excursions



Life in Karlsruhe and Germany

Leisure Time and German Culture







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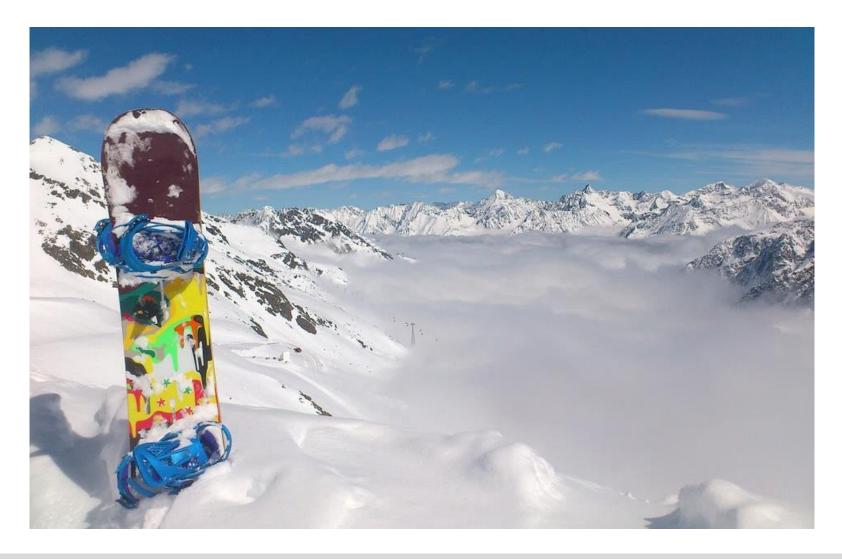




Life in Karlsruhe and Germany

Leisure Time and German Culture







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Why KSOP?

Our students & alumni say:



Taught in English

Excellent Research

No Tuition Fees • Scholarships

Strong Link to German Industry

International Environment
Interdisciplinary
Excellent Professors
Awesome Labs
Internship Program



Karlsruhe School of Optics & Photonics

Afraid of the dark? Study Optics & Photonics!



Apply now for your European experience and excellent education in optics & photonics!

Let's keep in touch:











KSOP Team

Your ontact for everything further.





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www.ksop.de
www.europhotonics.org
https://www.intl.kit.edu/english/index.php





