



# euroPHOTONICS

International Master in Photonics

## PARTNERS



## ASSOCIATED PARTNERS



## HOW TO APPLY

Online application procedure at  
[www.europotonics.org](http://www.europotonics.org)

## CONTACT

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# ERASMUS MUNDUS JOINT MASTER DEGREE IN PHOTONICS

SCHOLARSHIP OPPORTUNITIES

**euroPHOTONICS**  
International Master in Photonics

PHOTONIC ENGINEERING  
BIOMEDICAL IMAGING  
ADVANCED IMAGING  
QUANTUM OPTICS  
LASER OPTICS  
OPTICS FOR ASTRONOMY  
NANOPHOTONICS  
BIOPHOTONICS

[www.europotonics.org](http://www.europotonics.org)

Erasmus+

# MOBILITY SCHEME

SELF-FINANCED STUDENTS  
SCHOLARSHIP HOLDERS

M1

S1

Aix-Marseille University

S2

Aix-Marseille University

Karlsruhe Institute of Technology



M2

S3

Aix-Marseille University

Karlsruhe Institute of Technology

Universities of Barcelona

Tampere University

Vilnius University



S4 SPRING SCHOOL  
MASTER'S THESIS

## WHO CAN APPLY

★ Bachelor Graduates

★ M1 Master Graduates

# FIRST YEAR PROGRAM

## TO MASTER THE BASICS IN PHOTONICS

LECTURES, LABORATORY PRACTICES AND PERSONAL RESEARCH PROJECTS FOR A REAL FIRST EXPERIENCE

### SEMESTER 1 MARSEILLE

- » Fundamentals in Optics & Tutorials
- » Light Emission, Lasers Sources
- » Imaging & Systems in Optics

- » Physics for Photonics - Part I
- » French Language & Culture
- » Laboratory Practice
- » Personal Research Projects

### SEMESTER 2

#### MARSEILLE

- » Advanced Electromagnetics
- » Physics for Photonics - Part II
- » Nonlinear Optics
- » Photon Spectroscopy
- » Guided Optics - Optoelectronic Components
- » Fabrication & Characterization of Optoelectronic devices
- » Basic Molecular Cell Biology
- » Lab Courses
- » Signal & Image analysis
- » French Language & Culture
- » Internship

#### KARLSRUHE

- » Theoretical Optics
- » Nonlinear Optics
- » Spectroscopic Methods
- » Optoelectronics Components
- » Fabrication & Characterization of Optoelectronic devices
- » Basic Molecular Cell Biology
- » Lab Courses
- » German Language & Culture
- » Internship

### SEMESTER 3

See details in each partner insert

