



# euro PHOTONICS

International Master in Photonics

## PARTNERS



## ASSOCIATED PARTNERS



## HOW TO APPLY

Online application procedure at

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

## CONTACT

### PROGRAM COORDINATORS

Amélie LITMAN / amelie.litman@univ-amu.fr

Frank Wagner / frank.wagner@univ-amu.fr

### ADMINISTRATIVE COORDINATOR

Nadège GUILLEM / nadege.guillem@univ-amu.fr

Aix-Marseille Université

Faculté des Sciences - 13 397 Marseille Cedex 20 - FRANCE

+33(0) 4 13 94 55 02

## ERASMUS MUNDUS JOINT MASTER IN PHOTONICS SCHOLARSHIP OPPORTUNITIES



# euro PHOTONICS

International Master in Photonics

SINCE  
2010



Co-funded by  
the European Union

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

# 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

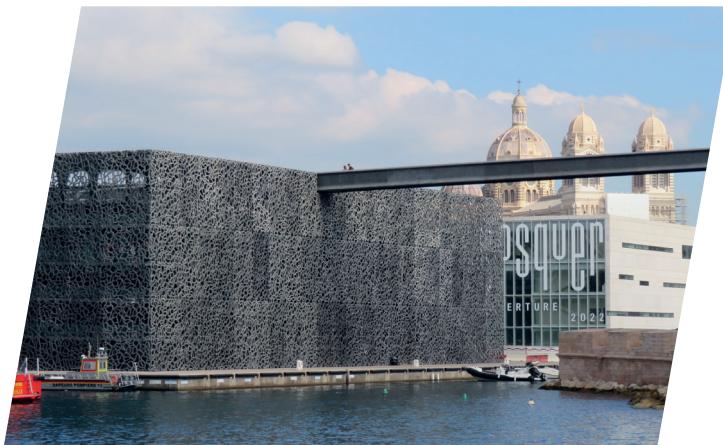
Vilnius University

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

- » Fundamental in optics
- » Mathematics for photonics
- » Light emission and laser sources
- » Imaging and systems in optics
- » Physics for photonics 1
- » Optical engineering
- » Optics and photonics lab
- » Numerical simulation of EM problems
- » French Language & Culture

### SEMESTER 2

#### MARSEILLE

- » Guided optics
- » Physics for photonics 2
- » Nonlinear optics
- » Photon spectroscopy
- » Fabrication and characterization of optoelectronic devices
- » Basic molecular cell biology
- » Laboratory projects
- » Signal and image analysis
- » Initiation to research activities
- » French Language & Culture
- » Internship

#### KARLSRUHE

- » Theoretical optics
- » Nonlinear optics
- » Spectroscopic methods
- » Optoelectronic components
- » Fabrication and characterization of optoelectronic devices
- » Basic molecular cell biology
- » Optics and photonics lab
- » German Language & Culture
- » Internship

### SEMESTER 3

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

