ADMISSION CRITERIA

Bachelor's degree (180 ECTS or equivalent) in Physics (basic or applied physics) or Engineering and related topics (optics, nuclear, photonics,...)

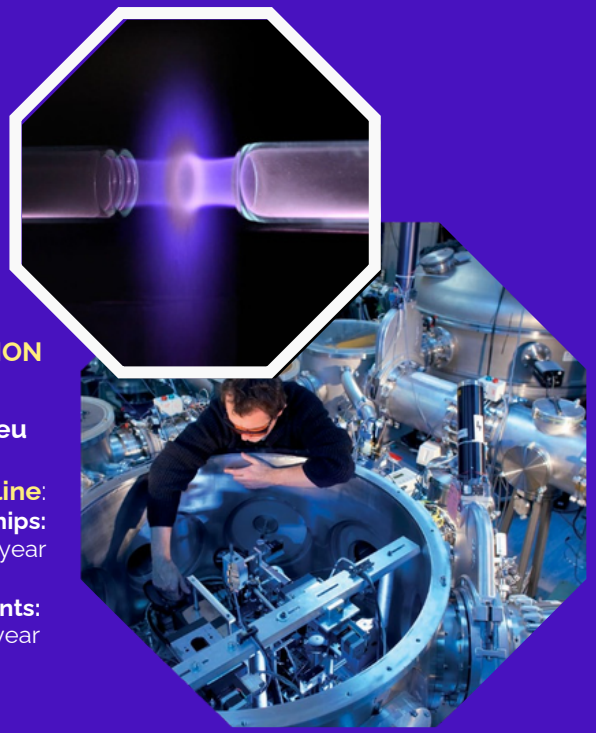
English skills (TOEFL, IELTS)

SCHOLARSHIPS

Erasmus+: Erasmus Mundus (for 2 years):
up to 33 600 €

Erasmus mobility scholarships (up to 360 days)
400€ to **560€** per month

Lascala partial scholarship (for 2 years):
fee waiving



APPLICATION

www.master-lascala.eu

Deadline:
Scholarships:
February of each year

Self-financed students:
April of each year

Lascala

Erasmus Mundus Master

LARGE SCALE ACCELERATORS AND LASER

ABOUT US

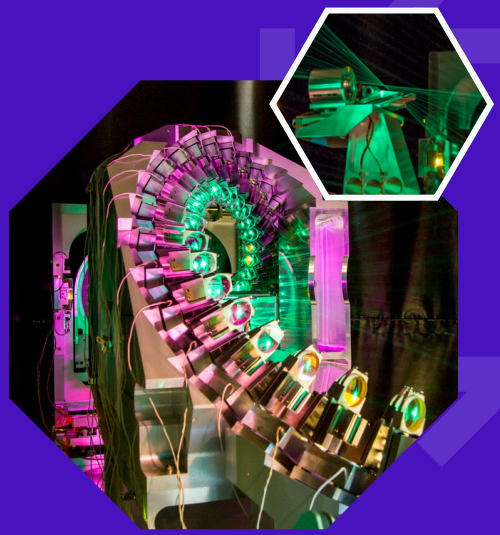
The LASCALA Master's is a two-year, international programme run by five leading European universities. It provides advanced training in accelerator physics, high-power laser technologies, laser–plasma interactions, and gravitational wave detectors, with a focus on cross-disciplinary applications such as energy, medicine, and security.

Proposed by 5 European research universities

- Paris-Saclay University (France)
- University of Salamanca (Spain)
- Sapienza University of Rome (Italy)
- Lund University (Sweden)
- University of Szeged (Hungary)

Highlights of the LASCALA program

- Mobility at up to 4 European universities
- Double or multiple diplomas
- Summer school
  - Conception & management of large-scale science projects
- Winter school
  - Laser-Plasma Interaction, Accelerators or Gravitational waves
- Extensive network of large-scale facilities and companies
- 6 month research internship



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CONTACT US

master.lascala@universite-paris-saclay.fr

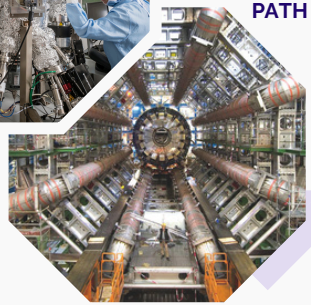
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université PARIS-SACLAY · Universidad de Salamanca · Sapienza Università di Roma · Lund University · SZTE University of Szeged

Co-funded by the European Union

MOBILITY TRACKS & SPECIALIZATIONS

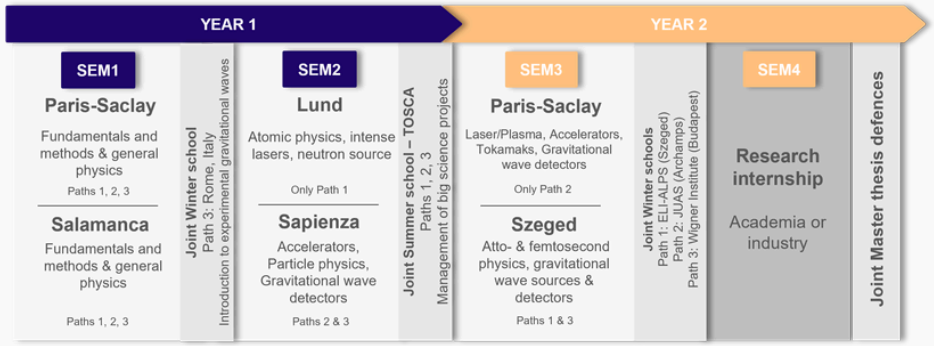




Create your own master's programme by choosing your Path (specialization).

PATH 1 - Laser, femto and attosecond
PATH 2 - Accelerators
PATH 3 - Gravitational wave detectors

Your study destinations are partly determined by your chosen specialization ("Path") and partly by your preferences.



DOUBLE / MULTIPLE DEGREE

1 academic semester = 1 diploma

- Master in Physics of Paris-Saclay University
- Master in Photonics of Lund University
- Master in Large Scale Accelerators and Lasers of Salamanca University
- Master in Physics of Sapienza University of Rome
- ·Master in Master's Degree in Physics, specialized in Large Scale Facilities in Accelerators and Lasers (LASCALA) from Szeged University

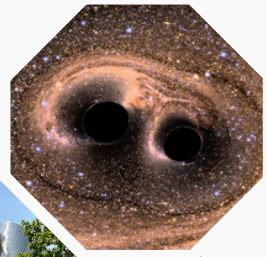
SUMMER AND WINTER SCHOOLS

JOINT WINTER SCHOOLS

A specialized winter school proposed for each of the program's three specialization Paths.



- **PATH 1** - **Laser-Plasma Interaction**, ELI-ALPS, Szeged, Hungary
- **PATH 2** - **JUAS**, ESI, Archamps, France
- **PATH 3** - **Advanced gravitational wave data analysis**, Wigner Institute, Budapest, Hungary





JOINT SUMMER SCHOOL

Techniques of Oversight in Scientific Project Administration (TOSCA)
Archamps, France

One-week intensive programme on managing large-scale scientific projects (accelerators, lasers, gravitational wave detectors).

- Governance & organization
- Financing & procurement
- Scheduling & quality assurance
- Knowledge transfer & IP
- Sustainability & outreach

SCIENTIFIC AND INDUSTRIAL NETWORKING

Benefit from a full immersion research experience with practicals in research labs, winter schools, on-site visits, seminars, and internships proposed by our partners.

- **Research centers:** CLPU (Spain), Elettra Sincrotrone Trieste (Italy), HUN-REN Wigner (Hungary), INFN (Italy), L2A2 (Spain), ELI-ALPS (Hungary), Laserlab Europe (Europe), MAX-IV (Sweden), SOLEIL Synchrotron (France), Central Laser Facility (United Kingdom), Institute of Photonics and Technologies (Taiwan), Structured Light Laboratory (South Africa).
- **Scientific collaboration**: Einstein telescope (Europe), EuPRAXIA (Europe), ECFA (Europe), VIRGO (Europe), LIGO (USA).
- **Companies**: Thales accelerator RF department (France), Thales laser department (France), Amplitude (France).