



Apply here

Start date

Flexible 2017

Duration

6 months

Languages

Good spoken and written English levels are required (B2 onwards)

Location

Oxford, England

The historic city of Oxford is a world-famous centre of excellence for academia, and architecture. Set within the famed Cotswold countryside it is a city that many return to time after time. It has a vibrant nightlife, a wide cultural offering and a multitude of sports to experience.

Are you eligible?

Are you a registered student?
Or

Are you eligible to participate in the Erasmus+ programme?

Benefits

See website for details of all ESPA benefits. For all internships over 6 months, additional benefits will be paid. Details available at interview.

Role

The successful candidate will develop a simulation capability based on a commercial simulation platform with a view to designing III-V semiconductor laser diodes. The project will focus on simulating and understanding the electrical and optical properties of multimode laser diodes.

The intern will be responsible for calibrating the simulator by studying and selecting the appropriate physics model(s) and comparing the simulator outputs to the experimental performances of the laser diode.

The role requires the recording of simulation results in an appropriate format, analysis of the data and reporting of the results to stakeholders. They will also be required to review the relevant scientific literature produced and inform on the status of other products available on the market.

Tasks

- Research current status of relevant technology
- Learn the simulation software to change the laser structure, improve the simulator and generate data output
- Calibrate the simulator to experiment with data
- Generate trends of laser diode performances (beam properties and current thresholds) when varying laser diode design

Desired Skills

- Bachelor/Masters studies which have included semiconductor laser physics
- Analytical approach to problem solving
- Comfortable with text based coding
- Strong motivational and self-learning skills

The Host Company

This Host Company is the Research and Development arm of a Japanese multinational corporation with 50 000 employees worldwide and a turnover of \$28 Billion. This worldwide market leader has built his fame through breakthrough innovation including mobile-phones, microwaves and LCD television.