

PhD POSITION ADVERTISEMENT

“Nonlinear Optics, Nonlinear Dynamics and Lasers” (DONLL) Group
 Universitat Politècnica de Catalunya (UPC)

MONOCROM Company

EUROSTAR PROJECT: High Power/Brightness Platform of Edge Emitting Semiconductor Lasers (HIP-Lasers)

[Nonlinear Dynamics Nonlinear Optics and Lasers \(DONLL\) group](#) at Universitat Politècnica de Catalunya together MONOCROM Company are offering a PhD grant in the framework of an European EUROSTAR Project they have just start to develop together.

Objectives: Design and fabrication of a compact semiconductor laser platform emitting high power/brightness and high spatial quality beams by implementing novel intracavity photonic crystal spatial filters. In collaboration with MONOCROM Company we plan to deliver a new generation of compact diode laser platforms capable of emitting up to 1kW (without amplifier) beams with a beam parameter product (BPP) between 2 and 3 mm·mrad,

The project combines theoretical and experimental work.

Candidate requirements

The candidate must hold a Bachelor in Physics or Engineering and a Master degree of a minimum of 60 ECTS.

Contact information

CV must be sent to: **Kestutis Staliunas** (kestutis.staliunas@icrea.cat).

