



UNIVERSIDAD POLITÉCNICA DE MADRID
ETS de Ingenieros de Telecomunicación
Avda. Complutense, 30; Ciudad Universitaria
28040 – Madrid, Spain



Calle de Julian Camarillo, 26
28037 Madrid, Spain

December 15th 2020

Industrial doctorate at Lasing S.A. Madrid.

Description:

Two positions as Industrial Ph.D. are being offered by **Lasing S.A.**, Madrid, with the supervision from Professors Quintana and Geday from the Applied Photonics Group, ETSI Telecomunicación, Universidad Politécnica de Madrid

The tentative titles of the doctorates are:

- 1) Development of a Fourier optics-based mask-less photolithography system
- 2) Development of a nanoscale 2 photons system for 3D manufacturing

Both theses include

- Training in Lasers and their application
- Applied laser system design
- 3D laser system design
- Hardware and software integration
- User interface and real time hardware control in Visual Studio (C#) and C
- Implementation of basic machine vision
- Testing of novel materials and lasers
- Use and development of characterization systems

Candidate qualification:

Academic Level: Master's degree or 60 master's credits obtained before June 5, 2020.

Academic Degree: Engineering, physics or similar.

Language: English, high level

Experience: Previous work in polymeric materials for DLW, optics, photolithography, and programming (C-, C++, LabView, Python) will be appreciated

Restriction: You cannot have coursed more than 1 year of a doctorate study.

Company: LASING S.A., Madrid

Reference: Industrial Doctorates of the Community of Madrid

Dedication: Full Time

Availability to travel: Yes

Date of Incorporation: 01/02/2021

Duration: 3 years

Salary: 19,250 euros/year (Gross income)

Contact: Doc.Industriales@lasing.com