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