

## **ERASMUS+ TRAINEESHIP / PLACEMENT OFFER**

Project title: Material laser processing and characterization for energy production and storage
Project description:
Our lab is focused on processing materials with recourse to lasers. We focus on solar PV materials (classical Silicon, and upcoming thin film technology - CIGS, Perovskites) and also battery and super capacitor storage materials (carbon, grafite, metal-oxides).  Lasers have a wide scope of applicability in manufacturing industry. There are several reasons for this, namely high power, high speed, energy efficiency and continued cost reductions.  We aim to apply differing types of lasers to develop materials with new functionalities and to also achieve the same type of materials but at a higher throughput rate.  Candidate should have interest in one of more of the following areas: Solid state physics and devices, lasers, materials, electrochemistry.
Please note: this placement offer is continuously open.
Department: Geographic Engineering, Geophysics and Energy
R&D Unit: Instituto Dom Luiz (IDL) and Structural Chemistry Cen
Field of study: Materials for energy applications: storage, conversion and solid-state illumination
Supervisor: Killian Lobato Personal webpage: https://ciencias.ulisboa.pt/en/perfil/klobato
Number of weeks offered: 12 to 24 Within the months: from September to July
Number of working hours per week: 10 to 35
Publication date: 23 / 10 / 2019 Closing date: / /
Requirements
General:      A very good academic record;     Good writing and presentation skills;     Good social and organisational skills;
<ul> <li>Very good proficiency in spoken and written English; knowledge of Portuguese language is an asset.</li> <li>Specific:         <ul> <li>Level of education:</li> <li>Bachelor's or Master's degree in</li> <li>Physics, Chemistry, Materials Science, Chemical Enging;</li> <li>;</li> <li>;</li> </ul> </li> </ul>
Specific:  Level of education:  Bachelor's or Master's degree in Physics, Chemistry, Materials Science, Chemical Engine; ; ;
Specific:  Level of education:  Bachelor's or Master's degree in Physics, Chemistry, Materials Science, Chemical Engine;  Applications  Applications  Applications should include the following information:  a cover letter, including a description of your research interests and an explanation for why you are applying for this project;  a curriculum vitae (CV);  an official transcript of grades issued by your home institution;
Specific:  Level of education:  Applications  Applications  Applications  Applications should include the following information:  a cover letter, including a description of your research interests and an explanation for why you are applying for this project;  a curriculum vitae (CV);  an official transcript of grades issued by your home institution;  and be submitted no later than/