2 PHD CONTRACTS IN 3D LASER MICRO-NANO-STRUCTURING OF ADVANCED OPTICAL FIBERS FOR OPTOFLUIDICS

You have a master's degree in Photonics, Electronics Engineering, Applied Physics, or equivalent. You are passionate about learning new science and developing new laboratory skills. You fulfil the requirements to subscribe as a doctoral student at ULL. You are interested in micro-photonics and fiber optics technology and its applications. You have experimental laboratory experience in optics and/or electronics, and in programming, and you have good mathematical skills.

Project: Your PhD work will be funded for 3-4 years within a EIC Pathfinder Open 2022, European project. Your work will be done in direct collaboration with five other European institutions, in an interdisciplinary project. You will be involved in the development of innovative concepts for 3D femtosecond-pulse laser processing of advanced optical fibers. Your work will consist on: (1) developing a new fabrication system and protocol for processing specialty optical fibers for an advanced optofluidic function, and (2) developing a microfluidic system. A wide range of scientific abilities will therefore be developed. You will work within the new **Laser-matter interactions and Extreme Application Photonics lab (LeapLab) in Tenerife, Spain**, as well as in close contact with leading research groups and companies in Europe.

Diversity: We actively seek for diversity in our group to enhance innovation and fight gender and racial inequalities. If you belong to an underrepresented group, please do not hesitate to contact us.

If you are interested, contact as soon as possible: Dr. Airán Ródenas (arodenas@ull.edu.es) as there will be several administrative constraints to prepare well in advance.

Provide: Your CV including your contact details, and at least 2 reference contacts of senior personnel with whom you have worked and who we will call for reference (we don't want written reference letters neither cover letters).