

Technical Project leader in advanced optical instrumentation

The **Center for the Development of Sensors, Instrumentation and Systems (CD6)** is a Research and Innovation Center of the Polytechnic University of Catalonia (UPC) that investigates and carries out innovation projects in Optical and Photonics Engineering.

CD6 has been recently awarded with a contract for the development of the Local Coherencer System of the European Extremely Large Telescope (E-ELT), currently being built in Chile by the European Southern Observatory consortium. The work includes the **design, construction and calibration of a series of functional interferometers** for high accuracy alignment of the mirror segments of the telescope. It involves both hardware construction and the development of the processing software. Final system will be installed in the telescope.

CD6 is currently posting different positions for the development of the project. This announcement calls for a **Post-doctoral Contract** of Project Development to collaborate in the E-ELT project. The duration of the employment contract will be initially 1-year, which may be extended up to 3 years depending on project progress. Starting date will be between September 15th and October 1st, depending on administrative requirements.

We are looking for a candidate with a strong optical engineering background, including optical design and metrology, and also with technical management experience. The tasks to be carried out include the development of software and hardware of the project, in collaboration with the CD6 research team. The candidate will be in charge of the technical reporting and follow-up of the project, in direct relationship with our contractors. Experience in large **project management and reporting**, and technical expertise in the field of **optical design and metrology**, in particular around **interferometry and analysis of fringe patterns**, would be requirements of the ideal candidate

More information

- On the position: santiago.royo@upc.edu
carles.pizarro.bondia@upc.edu
- On CD6: <http://www.cd6.upc.edu>
- On E-ELT <https://www.eso.org/sci/facilities/eelt/>

Requirements	PhD or Msc in Physics or Engineering Solid background in either optical design for interferometry, optical metrology, and/or fringe processing of interferograms. Experience in Project management and reporting in large international projects Fluent spoken and written English
Position	Full-time Location in Terrassa, Spain. Duration of one year, extendable to three Incorporation before October 2021
Application	Letter explaining motivation and experience related to the project Detailed Curriculum Vitae
Send to	Santiago Royo/Carles Pizarro Universitat Politècnica de Catalunya Rambla Sant Nebridi nº 10 08222 Terrassa fax: 93 739 89 23 e-mail : santiago.royo@upc.edu carles.pizarro.bondia@upc.edu
Also valued	Advanced programming skills (C++, Python, Open GL) Experience in GPU programming Knowledge of optical design software (Zemax OpticStudio) and mechanical CAD (Alibre, ProEngineer). Experience in comparable projects and in research in metrology and signal processing Team worker, self motivated, initiative, leadership.
Deadlines	Reception of candidatures July 20th 2021 Start of interviews July 23rd 2021