UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH

UPC

Laboratori de Càlcul Numèric (LaCàN)

CIMNE

EXCELENCIA SEVERO OCHOA

Open Postdoctoral position

One *Postdoctoral Fellow* position is available immediately in the "Laboratori de Càlcul Numèric (LaCàN)". The successful candidates will join a dynamic research group focusing on the development of novel strategies for *scientific machine learning optimization in automotive industry*. The position will be part of a funded project. The Fellow will be based primarily in the *Credible high-fidelity data-driven models*' group working at the intersection of computational science and engineering, multi-physics, shape/topology optimization, and machine learning.

Our dynamic, diverse, and fun team is looking to add another motivated, ambitious, and highly qualified creative postdoctoral fellow with excellent written and verbal communication skills. This position will remain open until filled and is available for a minimum of 2 years.

Salary will be determined based on the University guidelines for Postdoctoral Fellows. LaCàN/UPC and CIMNE (International Centre for Numerical Methods in Engineering) offer many opportunities to engage in cutting-edge research and is the ideal training ground for postdocs who strive to further develop their skills in pursuit of a career in academia or industry.

Required Qualifications:
- The successful applicant must have an PhD, with expertise in either mathematical modeling, computational engineering, and/or machine learning.
- Preference will also be given to candidates with a background in any of the following: development and programming for finite elements/volumes, transient Navier-Stokes modeling, coupled multi-physics simulations, reduced order models, neural networks, Gaussian process regression, deep reinforcement learning, and programming skills (Matlab and Fortran/C++).
- Successful applicants will have a track record of productive research and publications.

Required Application Materials:
- Your CV.
- Brief statement of research interest.

How to Submit Application Materials:
- Please email application materials to Antonio Huerta (antonio.huerta@upc.edu) or Matteo Giacomini (matteo.giacomini@upc.edu).