

PhD Position in battery multiphysical modeling in FEniCS

Universidad Loyola Andalucía (Seville, Spain) is currently offering a PhD position within the “**VirtualBats**” project, starting in June 2020 at the Department of Engineering. The aim of this project is to develop a multiscale multiphysical simulation platform for the virtual design of batteries at the material and component levels.

The main goal of the PhD project is to implement a coupled thermo-diffusive-mechanical finite element model within the open-source computing platform FEniCS. This thesis will be co-supervised by F. Montero-Chacón (Loyola) and J. Segurado (IMDEA Materials).

Requirements:

- BS + MS [equivalent to 240 + 60 ECTS] in the areas of materials science and engineering, continuum mechanics, mathematics or equivalent.
- Certified B2 English Level
- Programming skills (Python, C++, Matlab)
- Finite element modeling skills in commercial (Abaqus, Ansys, Comsol) and/or open-source (FEniCS).

Contact info: fmontero@uloyola.es

More details: <https://www.uloyola.es/servicios/recursos-humanos/trabaja-con-nosotros/convocatorias-ayudantes/predoct-virtualbats>