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Título puesto: Cálculo y simulación, fluidos e hidráulica

Curso: 2024/25

División: Engineering

Descripción del proyecto:

This is a Simulation, Fluids and Cryogenics group position at the Transversal Section in the Engineering Division. The main functions are the simulations for the projects, structural statics, structural dynamics, Thermal and thermomechanical, Fluid dynamics, and eventually vacuum simulations by means FEA tools and other simulation software's.

Program:

- Participate in the FEA simulation for Structural calculations.
- Participate in the FEA simulation for Structural dynamic calculations, Vibrations.
- Participate in the FEA simulation for Thermo-mechanical-Hydraulical calculations.
- Participate in the FEA simulation for XRay beam power deposition and its thermo-mechanical effects.
- Participate in the FEA simulation for Cooling hydraulics calculations and simulation.
- Participate in the FEA simulation for Hydraulic fluidynamic calculations with Flowmaster of water cooling circuits.
- Participate in the FEA simulation for Vacuum calculation: UHV level & profile calculation with Moldflow II, Synrad+ and Vactran, vacuum pumping elapse time, etc…

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Perfil del estudiante:

Industrial Engineer: Mechanics, Structural, Fluids, chemical or equivalent*.*

Industrial Engineering student in the *mechanics or structural specialization* interested in calculus specialized tasks using CAE tools, simulation software in general, and 3D modeling with CAD-CAE tools.

Tutor: Marcos Quispe
Responsable División: Joan Casas