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Título puesto: Tecnología de Vacío
Curso: 2026/27
División: Engineering

Descripción del proyecto:

The Vacuum Group at ALBA is responsible for the operation, maintenance, design and development of vacuum systems for the synchrotron accelerators and beamlines. These systems are essential to ensure the proper performance and reliability of the facility, and involve a combination of engineering design, integration, installation and commissioning activities.

As part of the Engineering Division, the student will collaborate with the Vacuum Group in technical tasks related to ultra-high vacuum technologies for scientific equipment and instrumentation. This position includes designing, developing, and simulating vacuum systems and chambers, as well as performing hands-on operations, maintenance, installation, and commissioning activities.

- Participate in technical design studies and conceptual designs of vacuum systems for the accelerator and the beam lines.
- Participate in technical design studies and conceptual designs of vacuum chambers systems for the accelerator and the beam lines.
- Production of lay-out drawings these systems.
- Production of technical specifications and costs estimations.
- Production of associated drawings to the technical specifications.
- Follow-up of the tendering process.
- Production follow-up, installation and commissioning of above mentioned vacuum systems.
- Participate in the vacuum systems and chamber design and construction.
- Participate in the vacuum systems and chambers prototype production follow-up.
- Supervise the installation of vacuum systems in test facilities.
- Give support to the Warehouse and Storage organization.

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Perfil del estudiante:

Industrial Engineering student in the Fluidtechnics specialization, mechanics, or equivalent interested in Ultra-High Vacuum technologies for scientific equipment and instrumentation applications especially in particle accelerator, beamlines and/or synchrotron related technologies. In addition, ***Materials or Chemistry engineering and nuclear*** specialties would be considered.

Tutor: Ricardo Parise
Responsable División: Joan Casas