



# Sample Project: Software development for Vacuum Controls

Code	TE5762
Programme	FCT
Department	TE
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## Title

Software development for Vacuum Controls

## Description

In the framework of the operation the Large Hadron Collider and of its injectors, you will be part of :

the Department Technology (TE) that provides the technologies specific to existing particle accelerators, facilities & future projects;

the Group Vacuum Surfaces and Coatings (TE-VSC), responsible for the design, construction, operation, maintenance and upgrade of high & ultra-high vacuum systems for Accelerators and Detectors;

the Section Interlocks, Controls and Monitoring (TE-VSC-ICM), in charge of the design, maintenance & consolidation of the vacuum control systems of all Accelerators and Detectors.

You will participate in the development, update and maintenance of the vacuum SCADA and its supporting IT infrastructure (oracle databases, vacuum database editor, web-monitoring tools).

You will take an active role in the development of tools (web-based), which will gather data concerning the various vacuum installations and provide overviews on the parameters of interest.

## Skills

Databases: Oracle. Information Technologies: Using software development tools (e.g. Git, Jira, Trac). Programming Languages: C, C++, Java, Javascript, SQL, PL/SQL or similar <p>

Master Degree in Computing, Automation or Electronics</p>

<p>System software administration [operating systems and applications installation, configuration, maintenance];</p>

## Disciplines

Information Technologies