



Sample Project: Electronics Design engineer for the CMS GEM front-end electronics.

Code	EP2462
Programme	FCT
Department	EP
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Title	
Electronics Design engineer for the CMS GEM front-end electronics.	
Description	
<p>Working within a team of engineers, and under the guidance of senior CERN engineer, the student will work on the design, characterisation and implementation of VFAT3 (a CMOS front-end readout chip for modern micro pattern gas detectors). Micro pattern gas detectors (MPGD), in particular gaseous electron multipliers (GEM), which are a recent innovation and front-end readout chips for such detectors are in their infancy. The project is part of the CMS Muon upgrade program.</p>	
Skills	
<p><p>Design of analog and/or digital circuits, VLSI design techniques, use of CAD design tools such as Cadence</p></p>	
Disciplines	
Electronic Engineering	

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