



Electronics Technical Engineer M/F

Europe

Are you an electronic technical engineer who is passionate about conceiving, designing and testing electronics for accelerators at the high energy and high intensity frontier? Take Part!

Job Reference: BE-BI-PI-2015-210-LD

Publication date:

11/12/2015

Closing date:

06/01/2016

Electronics Technical Engineer in the Beams Department (BE), Beam Instrumentation Group (BI), Position and Intensity Measurement Section (PI).

Joining the Beams Department (BE), which hosts the Groups responsible for beam generation, acceleration, diagnostics, controls and performance optimisation, you will work in the Beam Instrumentation Group and take part in developing and building the instruments used by the accelerator operators to measure the particle beams being produced and accelerated at CERN.

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Votre mission :

As an Electronics Technical Engineer in the Position and Intensity Measurement Section, your main task will be to develop and maintain the electronics related to beam position measurements. The initial emphasis will be on the development of the new orbit measurement systems for the Anti proton Decelerator (AD) and the new low energy anti proton decelerator ELENA.

The job will involve:

- The design of digital acquisition electronics based on field programmable logic-based devices (FPGA).
- The design of front-end low noise analogue amplifiers.
- The design and test of beam position monitors.
- Test, installation and maintenance of these electronic acquisition systems in the machines.

Votre Profil :

Bachelor's degree in the field of Electronics Engineering, or equivalent.

The experience required for this post is:

- Demonstrated experience in the field of electronics engineering.

The technical competencies required for this post are:

- Design of electronics based on field programmable logic-based devices (FPGA).
- Implementation of signal processing in DSP's.
- Analog and digital circuit design, modelling and simulation.

Référence

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Date de publication

16/12/15

Entreprise

Cern

Région

Europe

Ville

Secteur

Transport Et Manutention

Type de contrat

- Temps plein
- CDI

- Analog and digital circuit testing and measurement techniques.

The following technical competencies would be an advantage:

- Design of digital signal conditioning and processing electronics.
- Knowledge of low noise design and EMI mitigation techniques.
- Knowledge of Python for design of test benches.

The behavioural competencies required for this post are:

- Achieving results: following through on new ideas and innovations; planning and implementing application; driving work/projects along and seeing them through to their conclusion.
- Managing self: working well autonomously; taking on activities and tasks without prompting.
- Working in teams: building and maintaining constructive and effective work relationships.
- Demonstrating flexibility: demonstrating openness to new ideas and situations; being willing to work on different projects simultaneously.

The language competencies required are:

- English or French: spoken and written with the ability to draw up technical texts. The ability to understand and speak the other language in professional contexts would be an advantage, or the willingness to acquire it rapidly.

Conditions d'emploi :

Employing a diverse and international workforce is a CERN core value and central to our success. We welcome applications from all Member States(link is external) irrespective of gender, age, disability, sexual orientation, race, religion or personal situation.

This vacancy will be filled as soon as possible, and applications should normally reach us no later than 06.01.2016.

By applying here, you allow CERN to consider your application for any position it considers relevant with respect to your profile. Please ensure you update your profile regularly with any relevant information and that you inform the recruitment service if you wish your file to be removed from the database.

Note on Employment Conditions

We offer a limited-duration contract for a period of 5 years. Limited-duration contracts shall terminate by default on their date of expiry.
Subject to certain conditions, holders of limited-duration contracts may apply for an indefinite position.

These functions require :

- Work in Radiation Areas.
- Interventions in underground installations.
- Work during nights, Sundays and official holidays, when required by the needs of the Organization.