



## Electrical Engineer H/F

### Europe

*Are you an electrical engineer looking for a new challenge in the field of high voltage distribution networks? Contribute your skills to keep the power supply of CERN at the forefront to meet the needs of the continuously evolving accelerators, experiments, and general infrastructure. Take part!*

**Job Reference:** EN-EL-HT-2015-59-LD

**Publication date:**  
09/04/2015

**Closing date:**  
08/05/2015

#### Introduction

*Electrical Engineer in the Engineering Department (EN), Electrical Engineering Group (EL), High Voltage Section (HT).*

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#### Votre mission :

You will join:

- The Department that provides engineering competencies, infrastructure systems, and technical coordination for the world's largest particle accelerator complex and its experimental facilities.
- The Group that is responsible for CERN's electrical distribution network from 400 kV to 400/230 V. Its main missions are to operate, maintain, extend and renovate the electrical network, make projections for CERN's electrical energy consumption and manage relations with the energy suppliers. The group is also in charge of making modifications and extensions to the network when required by new projects, with project studies, equipment procurement, installation, supervising and commissioning.
- The High Voltage Section (HT) that is responsible for the modification, renovation and extension of the high voltage network (400 kV, 66 kV, 20 kV, 18 kV, 3.3 kV). The Section duties also include the procurement of high voltage equipment (switchgears, cables, transformers, protection relays, diesel generators, etc.), the modelling of the high voltage network and the network protection coordination.

#### Functions

As an Electrical Engineer in the High Voltage (HT) Section, you will actively take part in the extension, consolidation and the renovation of the electrical distribution network of CERN. You will be one of the project engineers bundling the CERN's electrical distribution network for the future. Further, you will manage contracts for the procurement of medium and high voltage equipment.

You will:

- Carry out the conceptual and detailed design studies for high voltage electrical substation and networks.
- Carry out network load analysis and high voltage equipment sizing.

#### Référence

15042710540

#### Date de publication

27/04/15

#### Entreprise

Cern

#### Région

Europe

#### Ville

#### Secteur

Transport Et Manutention

#### Type de contrat

- Temps plein  
- CDI

- Write technical specifications for the purchase of high voltage equipment.
- Contribute to the preparation of the medium and long-term development studies of CERN's electrical distribution network.
- Manage projects for the consolidation and extension of the existing high voltage electrical infrastructure involving multidisciplinary activities such as civil engineering, ventilation, IT systems.
- Manage contracts for the procurement of high voltage equipment

#### **Votre Profil :**

##### Qualification required

Master's degree in the field of Electrical Engineering, or equivalent.

##### Experience and competencies

The experience required for this post is:

- A demonstrated experience in the design, construction and commissioning of high-voltage electrical networks and substations.
- A demonstrated theoretical and practical knowledge of the high voltage equipment.

The following experience would be considered an asset:

- An initial experience in managing projects in the framework of substation and network construction.
- An initial experience in managing procurement contracts with international contractors.
- Experience of low voltage distribution networks.

The technical competencies required for this post are:

- Design of HV network & substations: indoor and outdoor substation design including coordination of protections.
- Commissioning, maintenance & operation of electrical distribution systems.
- Contract management: specification and purchasing of high voltage equipment.
- The technical knowledge about HV power transformers and cables is considered an asset.

The behavioural competencies required for this post are:

- Managing self: taking initiative beyond regular tasks and making things happen.
- Achieving results: having a structured and organised approach towards work; being able to set priorities and plan tasks with results in mind.
- Working in teams: understanding when teamwork is required to achieve the best results; including others accordingly and sharing information.
- Communicating effectively: listening actively to others and letting others speak.

The language competencies required are:

- Spoken and written English and French in professional contexts as well as the ability to draw-up technical specifications and project reports and to make oral presentations in the two languages.

#### **Conditions d'emploi :**

## Eligibility conditions

Employing a diverse and international workforce is a CERN core value and central to our success. We welcome applications from all Member States 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 08.05.2015.

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.
- These functions require interventions in underground installations.
- Shift work, when required by the needs of the Organization.
- Stand-by duty, when required by the needs of the Organization.
- Work during nights, Sundays and official holidays, when required by the needs of the Organization.

[Read more about employment conditions](#)