

## POST TITLE

Electrical Technician in the Beams Department (BE), Radio Frequency Group (RF), Power Amplifiers, Couplers & Modules Production Section (PM)

## Role summary:

Programme	Staff
Staff Category	To be filled in by HR
Number of posts	1
Job Reference	To be filled in by HR

## Associated Benchmark Job

Electrical Technician

## Grade

Grade 3 or 4

## Introduction

Are you an enthusiastic technician in electricity looking to acquire RF power experience whilst working on complex RF problematics? Take Part!

## You will join:

- The Beams Department (BE), which hosts the Groups responsible for beam generation, acceleration, diagnostics, controls and performance optimisation.
- The Radiofrequency group (BE-RF), responsible for the RF Acceleration and Transverse Damping Systems for CERN accelerators. Our team operates the RF systems of existing accelerators and participates in the design of future accelerators and upgrades of existing machines.
- The Power Modules (BE-RF-PM) section, responsible for the design, operation and maintenance of large RF power plants and related infrastructure.

## Functions

As an Electrical Technician in the Power Modules Section, you will be part of a team working on RF power amplifiers with the aim of designing, assembling, maintaining and testing high power RF systems for CERN's present accelerators and present plus future projects.

## You will

- Participate in operation and maintenance of the existing SPS RF power systems;
- Contribute to the development and prototyping of improved RF power systems and their components for consolidation and upgrade of accelerators;
- Participate in installation and commissioning of these systems;
- Produce complex designs using office-computing applications and liaise with a drawing office and with other relevant services at CERN.
- Produce and manage the associated technical documentation and test reports.
- A particular attention to the security questions, either during the conception as during installation or exploitation, will be an essential point of these activities.
- Participate in a stand-by service our team provides on the equipment.

## Qualifications Required

Grade 3 and 4 : higher technical diploma

## Experience and Competencies

- The experience required for this post is:  
Beginner accepted
- The technical competencies required for this post are:
  - Design of RF power systems and sources
  - Electro-mechanical construction
  - Commissioning, maintenance & operation of electro-mechanical equipment
  - Commissioning, maintenance & operation of Radio Frequency power systems
  - Design and development of crates and racks
- The behavioural competencies required for this post are:
  - Solving Problems: Identifies, defines and assesses problems, takes action to address them; Produces workable and timely solutions that meet requirements.
  - Working in the Interest of the Organization: Demonstrates motivation for own work, is enthusiastic, involved and energetic in pursuing tasks; Champions new initiatives within and beyond the scope of own job.
  - Working in Teams: Works well in groups and readily fits into a team; participates fully and takes an active role in team activities; Supports and acts in accordance with team decisions; accepts joint responsibility for team successes and shortcomings.
  - Achieving Results: Delivers prompt and efficient service taking into account customer needs; Drives work / projects along and sees them through to their conclusion.
  - Learning and Sharing Knowledge: Thinks “out of the box” and proposes fresh ideas, insights and methodologies; Takes steps to expand knowledge in other areas of expertise beyond own field.
- The language competencies required for this post are:  
Spoken and written English or French: ability to draw up technical texts in one of the two languages, as well as ability to understand and speak the other language in professional contexts.

## Eligibility and closing dates

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 xx.xx.xx. 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 contract.

	These functions require shift work, including nights, Sundays and public holidays.
x	These functions require participation in a regular stand-by duty, including nights, Sundays and public holidays.
	These functions require work during nights, Sundays and public holidays.
x	These functions require work in radiation controlled areas.
x	These functions require interventions in underground installations.
	This post is also published in grades XXX with the corresponding functions and qualification requirements adjusted accordingly.
x	A valid driving licence is required.

SPECIAL CONDITIONS WHICH MAY BE REQUIRED DEPENDING ON THE NEED OF THE ORGANIZATION
--

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
---