

# Accelerator Physicist/Engineer

ITEL TELECOMUNICAZIONI s.r.l., a leading company in medical, pharmaceutical and electromagnetic compatibility fields, is looking for an Accelerator Physicist/Engineer to support the LINEARBEAM division in design and development of particle accelerator linear technology solutions for medical application.

## **Job Information**

- Research and development of particle accelerators;
- Multi-physics numerical simulations;
- Analyze and interpret experimental data;
- Write ad-hoc scripts for numerical simulations of transverse and longitudinal dynamics using generic computing languages;
- Design, prototype, optimize, and lead the fabrication of beams and ancillary equipment, cooperating with other project team;
- Troubleshooting and maintenance of beam injectors acceleration system, power supplies, and associated electronics;
- Write detailed specifications, procedures, and reports to support beam development projects.

## **Requirements:**

- Master degree or PhD in accelerator, beam, or plasma physics or related discipline
- At least 3 years of experience
- Consolidated knowledge of multi-physics numerical simulations;
- Strong experience in numerical simulations in at least three of the following areas:
  - ✓ Electromagnetic analysis
  - ✓ Plasma physics
  - ✓ Ion optics
  - ✓ Beam interaction with matter
  - ✓ MC simulations
- Consolidated knowledge of computing languages such as Matlab, C++, Python, Mathematica, Labview;
- Consolidated experience in testing, troubleshooting, fabrication and commissioning of accelerator devices cooperating with engineers;
- Consolidated knowledge of Beam interaction with matter
- Experience in design hardware, thermal analysis, electromagnetic field calculations with finite element method software packages;
- Experience in beam transverse and longitudinal dynamics simulations (proton);
- Flexible, open to new challenges in a dynamic environment, possess strong technical expertise combined with strong verbal and written communication skills
- Experience to manage multiple priorities with sufficient autonomy
- Highly responsible, engaged, team-oriented individual
- Knowledge in written and spoken English

The placement and remuneration will be proportional to the degree of professional experience assessed.

Workplace: Ruvo di Puglia

## **How to apply:**

Mail to: [itel@itelte.it](mailto:itel@itelte.it)

Object: RIF. Physicist/Engineer

## **Deadline:**

October 2019