

Technician for Electronics and ITF Operation (Ref. TC-ITF-18)

Context

The European Gravitational Observatory (EGO) is a French-Italian consortium founded by INFN and CNRS to foster European collaboration in gravitational wave research.

EGO is located in Cascina, near Pisa –Italy, and hosts and operates the gravitational wave detector Virgo, a 3 km-long laser interferometer (ITF). Virgo and the two LIGO ITFs in the US are the most sensitive gravitational-wave detecting instruments in the world.

The Virgo project involves the collaboration of about 20 laboratories with more than 250 scientists, engineers and technicians in France, Italy, the Netherlands, Poland, Hungary and Spain.

Assignment

The selected candidate will work as a technician in the Electronics team of the EGO ITF Technology Department and, under the guidance of senior engineering staff, she/he mainly will:

- populate custom-designed electronic boards;
- assemble units hosting one or more boards and associated cabling;
- follow and maintain engineering documentation of units and systems, including operating procedures;
- prepare and install custom cabling;

During ITF commissioning periods or during data-taking periods, the selected candidate will be required to work in shifts in the Control Room (including night and weekend shifts whenever needed) as a technician in the Operators team of the EGO ITF Technology Department. In this capacity, the candidate will need to:

- keep the ITF in the needed configuration, according to the on-going scientific activity following established procedures and safety rules;
- provide support to the scientific crew working in the Control Room;
- perform routine operations as well as basic troubleshooting;
- check the correct functioning of the ITF by means of the appropriate monitoring systems;
- promptly recognize sub-system problems and undertake a first-level intervention and, in the case of more complex problems contact the relevant expert.

Essential required qualifications and experience

- High-school qualification in Electronics or an equivalent educational level, with at least 3 years of professional experience.
- Ability to comprehend technical information, manuals, reports, as well as to prepare logbook entries, reports, etc.
- Versatility and ability to act as an effective team player adapting to ever-changing conditions.
- Capacity to communicate efficiently with colleagues from different European countries and a strong sense of team spirit.
- Good knowledge of English.

Desired qualifications and experience

One or more of the following will be an asset:

- experience with CAD tools (for electronics, and possibly mechanical, design);
- experience in manual soldering of high-reliability electrical connections;
- experience in basic troubleshooting of electronics devices;
- hands-on, practical approach to electronics;
- basic knowledge of UNIX/LINUX operating systems ;
- working knowledge of Italian.

General requirements

- European citizenship.
- No criminal convictions.
- Driving license.

Place of work

EGO - European Gravitational Observatory – Via E. Amaldi - S. Stefano a Macerata – 56021 Cascina (PI) - ITALY.

Type of contract

One-year contract, except legal limits, as “Collaboratore Tecnico” (Technical Collaborator), according to the “Contratto Collettivo di Lavoro del Personale EGO” (EGO personnel collective bargaining agreement). Upon expiration, the contract could be transformed into an indefinite contract.

Selection procedure

The selection will be made considering candidate qualifications and experience.

The first phase of the selection will be based on the examination of the CVs and Application Forms. The best candidates will be admitted to the final phase, which will consist of an interview.

How to apply

Candidates can send their CV and the EGO Application Form (to be found [here](#)), to jobs@ego-gw.it quoting the reference number of this vacancy notice.

Responsible for the procedure

“Responsabile del Procedimento”:

Pasquale Popolizio

Tel 050 752546

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Closing date for applications

January 6th, 2019.