GRAN TELESCOPIO CANARIAS
GTC

GTCR01_20 JUNIOR DEVELOPMENT ENGINEER. Electronics

Publishing Date: February 4th, 2020 **Deadline:** March 17th, 2020 at 13:00

The public company Gran Telescopio de Canarias, S.A. (GRANTECAN) opens a selective process to temporarily hire an Electronics Engineer oriented to automatization of mechanisms and invites those interested to submit their application to it.

The required engineer must comply to the following profile:

Functions

The Engineer will develop functions of its category in the projects related to the "Improvement and consolidation of the Grand Canary Telescope (MECON_GTC)" co-financed by the ERDF for the Plurirregional Operational Program of Spain 2014-2020, within the Development Group.

Section A (Minimum Qualification Required)

- University degree in Electrical o Electronic engineering, or related areas, of second level QF-EHEA (level MECES 3), that grant professional attributions to practice as an Industrial Technical Engineer or Industrial Engineer in Spain.
- Spanish spoken and written with the ability to develop the required work activity.
- English spoken and written with the ability to develop the required work activity.
- Vehicle driver license (category B or higher)

Section B (Essential)

The purpose of the job is to develop actions to update the hardware and software control platform, update the control electronics of several GTC subsystems, design and integration of control electronics for new subsystems, and provide electronic support for electromechanical measurements of diagnosis of the GTC telescope.

Therefore, the candidate is required to have knowledge and / or experience in the following specific essential competences:

- Knowledge and experience in the design, construction and commissioning of low voltage electrical installations and / or machines.
- Knowledge and/or experience in the use and programming of industrial PLCs.
- Knowledge and/or experience in the use of field buses and their associated communication protocols (eg CANOpen, Profinet, Profisafe, Ethercat, Modbus, ...) for the control of mechanisms and I/O, and the development of applications that use them.

Section C (will be assessed)

Additionally, it will be valued that the candidate has knowledge and/or experience in the following specific complementary competences:

- Engineering knowledge in other areas (optics, mechanics, ...) and the ability to work in a multidisciplinary team environment.
- Knowledge of electrical CADs, in particular EPLAN.
- Knowledge and experience in design and construction of analogue electronics.
- Knowledge and experience in design and construction of digital electronics.
- Knowledge and experience in automatic regulation and servo control of machines and/or processes.
- Knowledge and experience in development, integration and testing of software applications that run on both UNIX platforms, preferably Linux.
- Knowledge and experience using C ++ programming language.
- Experience in the use of general software engineering tools (e.g. version control, IDE's Eclipse type, agile development management systems).
- Experience with the development of multi-threaded software applications.
- Data analysis with different languages (Matlab, Python, IDL, ...).
- Knowledge of mechanical engineering and use of mechanical CAD tools (3D modeling) and drawing with Autocad.
- Knowledge of machine safety and / or prevention of occupational hazards.

Section D (will be assessed)

In addition to the specific competences the following general competences will be assessed:

- Knowledge and experience in project management and work teams.
- PhD education (third cycle QF-EHEA, MECES 4), particularly in areas related to the specific competencies required.
- Experience in the design, operation and / or maintenance of astronomical and / or scientific facilities.
- Balance between systemic vision of the problems and a practical attitude to give solutions to the questions raised.
- Good oral and written communication skills.
- Ability to adapt quickly to changing circumstances.

Rating scheme

- Section A: Candidates who do not meet these requirements will be discarded and not valued.
- Section B: Maximum score: 50 points. Candidates whose rating is less than 25 will be discarded.
- Section C: Maximum score: 40 points.
- Section D: Maximum score: 10 points.

The assessment will be based on the documentation provided by the candidate and a personal interview.

Contractual Information

The selected candidate will sign with GRANTECAN a temporary full-time work contract for specific work and service; subject to a six-month trial period; for an estimated period of 3 years.

The work centre will be the headquarters of GRANTECAN in La Laguna (Tenerife). It may require timely work at the Roque de Los Muchachos Observatory (GTC) at 2400 m altitude.

The gross annual salary will be between € 33,100.00 and € 37,101.30 based on the experience and worth of the candidate. The work carried out at the Roque de los Muchachos Observatory in La Palma will have additional compensation.

GRANTECAN is fully committed to equal treatment and opportunities in the work environment.

Submit of applications

Those interested should send the applications before March 17th, 2020 at 13:00, to the email address r.personal@gtc.iac.es, indicating the relevant reference number in the subject line.

Applications will contain the following documents (in PDF format):

- Application form (available on our website)
- Curriculum vitae

Applications submitted after the deadline or those that do not include the mandatory application form will not be considered. In the case of incomplete applications, the applicant will have a period of three (3) days, counted from the date the missing documentation is required and never beyond the deadline.

For more information on this position, contact the Head of Developments of the GTC, Mr. Javier Castro López (0034 922 315031 ext 597 or e-mail javier.castro.lopez@gtc.iac.es). For more information about the GTC, see our website: http://www.gtc.iac.es.