



GTCR_08_23 OPERATIONS ENGINEER (LEVEL I-II). Mechanical area.

Publication date: 19-05-2023

Closing date: 12-06-2023

Gran Telescopio de Canarias S.A. (GRANTECAN) invites applications for one Operations Engineer position (Level I-II) for the implementation of new observational capabilities of the Gran Telescopio de Canarias (GTC).

GRANTECAN looks for people with exceptional talent and skills to operate, maintain and improve the Gran Telescopio de Canarias (GTC) executing scientific projects of the highest quality in the field of astrophysics. To this end, it requires people with integrity, responsibility, transparency, respect and honesty in their work, who seek continuous improvement, personal safety, the integrity of the facility, efficiency and innovation in their actions, as well as responsible and sustainable use, with the primary objective of caring for the environment.

Duties:

The person selected will report hierarchically to the Head of Engineering Operations. **The main function and activity of the selected person will be within the following scientific-technical services:**

- 1) Astronomical observations at high spatial resolution.** It consists of the implementation of the new scientific instruments that allow reaching the theoretical limit of the telescope in terms of spatial resolution, as well as the adaptation of the telescope to achieve this goals: Adaptive Optics, Laser Guide Star, CAIN camera, FRIDA spectrograph, data reduction pipelines, natural ventilation of the telescope, upgrade of the GTC axes and mirror control, mirror alignment, co-phasing, closed-loop active optics, segment deformation, upgrade of the GTC Control System, and new operating tools.
- 2) New observational capabilities with new or improved instrumentation.** Implementation of the other new scientific instruments of the GTC, or existing instruments that have been upgraded, according to the current instrumentation plan: OSIRIS+, EMIR, MIRADAS, HiPERCAM, CHORUS, their operation tools and pipelines, as well as the adaptation of the telescope and infrastructure to install and operate them.

(Section A) Minimum qualification required:

- First level university degree [QF-EHEA](#) (MECES level 2) in Mechanical Engineering.
- Full current driving license (level B or higher).

(Section B) Experience, knowledge and specific core competencies

- Be able to communicate effectively in Spanish.
- Be able to communicate effectively in English.
- Knowledge and experience in AIT / AIV activities.
- Experience in the design and implementation of parts and/or pieces.
- Experience in the measurement, adjustment and verification of machines and mechanical systems.
- Experience in the design and implementation of structures.
- Expertise in vibration control and thermal control (thermal stability).
- Experience in requirements specification, planning, cost analysis and risk analysis

Section C (Experience and/or knowledge in specific complementary skills)

- MECES 3 (Official Master's Degree in Industrial Engineering, Mechanics, Materials or similar).
- Knowledge and experience in low voltage electricity (Spanish REBT).
- Experience in the drafting and monitoring of technical specifications, contracts and tenders relating to Spanish public procurement.
- Knowledge and experience in advanced data analysis (Data Analytics).
- Knowledge of programming in C++ or Python.
- Knowledge in the design and implementation of advanced maintenance (predictive/prescriptive).

Publication Date: May 19h, 2022

- Leadership, organisational skills with emphasis on adapting to change, transparency, self-organisation and collaboration with the rest of the team.

Merits to value:

- Section A: Candidates who do not meet these requirements will be discarded and not evaluated.
- Section B: Maximum score: 60 points. Candidates who score less than 30 points will be disqualified.
- Section C: Maximum score: 40 points

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

GRANTECAN is fully committed to equal opportunities and non-discriminatory recruitment. Under equal conditions in terms of merit and ability, the incorporation of personnel of the sex less represented in the professional group to which the position belongs will be prioritized.

Contractual Information

The selected person will sign an open-ended full-time employment contract with GRANTECAN, subject to a six-month probationary period. The duration of this contract will be indefinite, starting the employment relationship on the contract start date, with the duration linked to the scientific-technical service object of the contract detailed in the "Functions" section. From a technical point of view, it is estimated that the implementation of this scientific-technical service will be completed around 2028-2029. This is in accordance with article 23 bis of Law 14/2011, of 1 June, on Science, Technology and Innovation.

The work centre will be GRANTECAN's operations base in Breña Baja (La Palma), with frequent work stays at the Roque de Los Muchachos Observatory (GTC) at 2400 m altitude. Occasional work may be required at the Tenerife site in San Cristobal de La Laguna.

The gross salary will be that corresponding to level I (36.139,62€) or level II (40.508,36€), depending on the qualifications and experience of the person selected. Additional compensation will be paid for work at the Roque de los Muchachos Observatory on La Palma.

Non-UE citizens:

Applicants who are not citizen of a country belonging to the European Union are invited to apply for this position, but, if selected, will be allowed to sign the contract with GRANTECAN only after obtaining the compulsory documentation required to live and work in Spain.

Applications

Interested applicants should send their applications by 12 June 2023 at 15:00 (WEST) to r.personal@gtc.iac.es , indicating the relevant reference number in the subject line. Applications must contain the following documents (in PDF format):

- Cover letter, describing the motivations for applying for this call.
- Application form (available on our website).
- Curriculum vitae.

Late applications or those that do not include the required documents, will not be considered. In case of incomplete applications, the applicant will have a period of three (3) days, starting from the date in which the missing documentation is required.

Further information

Further information on this position is available from the GRANTECAN Head of Operations Engineering, Luis Rodríguez García (0034 922425720 ext. 734 or e-mail luis.rodriquez@gtc.iac.es). Further information about the recruitment process is available from the GRANTECAN Head of Administration, Lourdes González Rodríguez (0034 922425720 ext. 721 or e-mail lourdes.gonzalez@gtc.iac.es). Further details about the GTC may be found at its web site: <http://www.gtc.iac.es>.