



Isaac Newton Group of Telescopes

Automatic systems, measurement and control Engineer/Technician

Ref: LSR02-24 *Closing date for applications: 16:00(GMT) on the **29th February 2024***

The Isaac Newton Group of Telescopes ([ING](#)) invites applications for the post of Automatic systems, measurement and control Engineer/Technician. The successful candidate will join the ING operations team.

The ING operates the 4.2-m William Herschel Telescope (WHT) and the 2.5-m Isaac Newton Telescope on behalf of the UK Research and Innovation Science and Technology Facilities Council, the Dutch Nederlandse Organisatie voor Wetenschappelijk Onderzoek, and the Spanish Instituto de Astrofísica de Canarias. The facilities, which are equipped with world-class imaging and spectroscopic instruments, are located at the Observatorio del Roque de Los Muchachos (ORM) situated at an altitude of 2400m on the Spanish island of La Palma. Exciting developments for both ING telescopes are currently underway: at the WHT, the [WEAVE](#) multi-fibre spectrograph has started science observations in 2023, while the HARPS-3 stabilised high-resolution spectrograph for the INT will be deployed in 2025 following robotisation of the INT in mid 2024.

Reporting to the Head of Operations, contributing to operations as well as active projects especially what electronics is concerned, the post is ideally suited to an electronic engineer or technician, who is looking for opportunities to grow in a challenging, operational environment.

PURPOSE, RESPONSIBILITIES AND DUTIES

Main purpose for the post

- Provide support to all electronic and control systems in the telescopes and the ING infrastructure at the ORM (Observatorio del Roque de los Muchachos).
- Contribute to operations as well as active projects especially what electronics is concerned.

Associated duties and responsibilities

The principal duties associated with this post include, but are not limited to:

- Operations team support; collaborate in instrument changes and the corresponding tests on demand.
- Assume the responsibility to attend and solve faults related to electronics. Ensure the faults database is updated accordingly on time.
- Participate in maintenance works in general as needed, covering telescopes,



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instruments and support equipment. Being able to analyze, measure and characterize the performance of electronic boards or equipment. Carry out specialist electronics repair, or design and construction of electronic prototypes when required.

- Always follow the safety rules, general or specific of ING. Collaborating with Ops team safety as needed, to support daily operations or other periodic tasks. Act as preventive resource on demand.
- Participating in ING projects on demand; including infrastructure preparation tasks for WEAVE.
- Instrument management activities. Provide full support for specific instruments.
- Identify and store the correct level of spares for all areas of responsibility. Manage and promote the purchase of electronic spare parts as needed.
- Revise, modify and/or generate technical documentation of electronic systems in use at ING. Gain experience with all the electronic sub-systems at the telescopes. Focus to maximize reliability of all electronics and control systems in use.
- Report to Operations/T&I manager any instrument or system concerns or propose improvements.
- Collaborate with other ING members, as well as engineers of other institutions to fulfill ING or project's needs.
- Provide support to electric engineering, on demand.

SHORT-LISTING CRITERIA

Experience

- **Minimum:** No minimum experience is required.
- **Desirable:** Two years or more working as electronics/control engineer in an astronomical observatory environment or similar.

Qualifications

- **Minimum:** Professional qualification in electronics or related field (FPII).
- **Desirable:** Qualification as electronics/control engineer.

Languages

- **Minimum:** fluent Spanish
- **Desirable:** be able to communicate in English

Other requirements

Applicants must also:



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- be fit to work at 2400 m altitude;
- be able to use office tools specially for documentation, communications, etc
- be able to occasionally travel and work away from base and overseas.

Valued knowledge, skills and personal qualities

Work will involve the application of a range of established practices and procedures or defined rules and regulations. However, the exercise of judgement and interpretation, or knowledge of basic principles and a good understanding of practices of a technical area or a specialism, will be required. Supervision will be available through Head of Operations.

For this post the following competencies are expected:

- Flexibility and adaptability. A teamwork spirit.
- Strong awareness of Health and Safety issues.
- Fluency in the use and learning of today's information technology tools for work and for communication.
- Capability of learning and understand the advanced electronic systems in use and carry a continuous personal development plan to cover future needs of ING electronics engineering.

CONTRACTUAL INFORMATION

Following a three-month probationary period, this will be a permanent, full-time position. The appointment will be at grade B or C. In the case of grade B, the starting gross salary is €29,793.93 per annum which is subject to Spanish income tax and social security deductions. After the first year, the salary will increase to €31,362.08 per annum. In the case of grade C, the starting gross salary is €34,263.35 per annum, and €36,066.57 per annum after the first year.

Medical cover will be available to the appointee, partner and accompanying children under the Spanish National Health Service. ING will assist those coming from abroad in registering with the Social Security and Health Services. A relocation package and financial support for Spanish/English lessons are available.

Applicants from outside the EU need to be in possession of a residence permit and work permit both of which must be valid for Spain.

APPLICATIONS

Send a completed application form, available from



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<https://ingconfluence.ing.iac.es/confluence/display/INGPublic/Job+Vacancies>, to recruit@ing.iac.es. The form must be completed in English or Spanish.

Information related to the terms and conditions is available from the Head of Administration, Mr. Juan Jose Herrera Bujalance (juanjo@ing.iac.es), + 34 922 425 413.

Applicants must also provide:

- CV
- A brief statement of the work undertaken within the last five years and
- Three professional references

FURTHER INFORMATION

Further information is available from the Head of Operations, D. Diego Cano (dcabi@ing.iac.es), + 34 922 425 404. The ING is fully committed to equality of opportunity in the workplace. The closing date for applications is 16:00 (GMT) on the 29th February 2024.