



**Germans Trias o Pujol Research Institute (IGTP)** endorses the Requirements and Principles of the European Charter for Researchers, the Code of Conduct for the Recruitment of Researchers, and Open, Transparent, Merit-based recruitment promoted by the European Commission and follows Equal Opportunities policies. On 22 August, 2019, IGTP was awarded the "HR Excellence in Research" logo. This recognition reflects the commitment of the Institute to the continuous improvement of its human resources policies in line with the Charter & Code. The Institute works to ensure fair and transparent recruitment and appraisal procedure

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## LINUX SYSTEM ADMINISTRATOR (REF.: 2021/21)

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### 1. RESEARCH DESCRIPTION:

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The Germans Trias i Pujol Research Institute (IGTP) needs to incorporate a **LINUX SYSTEM ADMINISTRATOR** responsible for overseeing the High-Performance Computing (HPC) Center dedicated to scientific computing. The HPC includes a cluster with 240 nodes, several servers, workstations, 500 Tb of disk storage and tape backup system, and provides support to IGTP research groups.

**IGTP** is a public research center located at the Can Ruti Biomedical Campus, Badalona, near Barcelona. The IGTP focuses its activity in performing research for improving people's health. The institute is attached to one of the largest University hospitals in the Barcelona area, the Germans Trias University Hospital (HUGTP) that constitutes the epicenter of the Biomedical Campus. IGTP is a member of the biocluster supported and supervised by the Generalitat de Catalunya. It is also accredited as a Center of Excellence by the Instituto de Salud Carlos III, acting as an umbrella organization for scientific research on Campus. Bioinformatics and genomics are research areas shared by many research groups at IGTP who use the computer cluster regularly.

### 2. REQUIREMENTS:

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- a) Degree in Computer Science, Bioinformatics, Computer Engineering or equivalent.
- b) Experience in configuring and managing Linux computer clusters.
- c) Experience managing networks and networking hardware.
- d) Knowledge of scripting languages (bash, python, perl, ruby).
- e) Experience in automation of the installation of the operating system.
- f) Experience with configuration management tools (puppet, ansible).
- g) High analytical and diagnostic ability.
- h) Basic understanding of the principles of computer security and good practices.
- i) Experience in virtualization technology.
- j) Experience in control systems and firewalls.
- k) Experience working on scientific environments and installing scientific software will be valued.
- l) Good English level.
- m) Windows administrators will not be considered.



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It will be valued to have recognized by the competent organs of the Autonomous Communities or, in his case, of the General Administration of the State, a degree of disability equal or superior to the 33 per cent, or to have declared to them in situation of permanent disability in a total degree in a profession other than teaching, by Resolution of the National Social Security Institute, provided that they have the functional capacity to perform the usual tasks of the job.

### **3. MAIN RESPONSIBILITIES:**

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The candidate will lead the HPC infrastructure of the institution. In addition to the day-to-day management tasks, he/she will be responsible for its mid- and long-term planning including new hardware acquisition and whole system evolution.

The tasks to be performed are:

- a) Installation and maintenance of the operating system (Linux, currently Debian).
- b) User access control.
- c) System monitoring.
- d) Queue system management (SGE).
- e) Software installation and upgrade.
- f) Database management.
- g) Management and installation of central servers as well as servers belonging to the different research groups and the High Content Genomics and Bioinformatics Platform
- h) Management of scientific data backups.
- i) Maintenance of hardware dedicated to scientific computing.
- j) Consulting for the acquisition and purchase of new computer equipment.
- k) Training of research staff in the proper use of scientific computer equipment.
- l) Coordination with the IT department (responsible for network administration, email and Windows software).
- m) Documentation of all Linux administrative tasks and procedures.

### **4. WHAT WE OFFER:**

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- a) A core funded one-year full time contract, which will be extended after positive evaluation to an indefinite contract that will be made if any of the assumptions established in General Budgets of the Generalitat de Catalunya and the basic regulations of the General State Budgets authorize a new call for the vacancy with an indefinite contract. The position is equivalent to an "Advanced Technician" in the IGTP professional career.
- b) Annual brute salary appropriate for the present call in function of experience and abilities of the candidate distributed in 12 payments.



HR EXCELLENCE IN RESEARCH



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## 5. FOR MORE INFORMATION:

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For more information see the link:

<http://www.germanstrias.org>

<http://www.germanstrias.org/technology-services/high-performance-computing/>

## 6. APPLICATIONS:

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Those interested must send a letter of motivation explaining their interest in the post, a CV and the contacts of 2-3 referees to the address [seleccio@igtp.cat](mailto:seleccio@igtp.cat)

APPLICATIONS THAT DO NOT INCLUDE THE REFERENCE CODE IN THE SUBJECT LINE WILL NOT BE CONSIDERED

After pre-selection the short list of candidates will be invited for interview.

## 7. DEADLINE FOR APPLICATIONS:

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The call for applications will close on 15 March 2021.