ESO / Oportunidades de Formação

1. Software Engineering

Desired skill set

- Good experience in at least one of C++, Java or Python
- Experience with SQL and/or noSQL databases
- Familiarity with modern software development processes and methodologies
- Experience with multi-threaded programming and parallelisation techniques
- Experience in user interface development (web based or desktop)

Assignments:

- Development of applications for ALMA (science archive and archive)
- Paranal Instrumentation Control Software

Duty Station: Garching, near Munich, Germany

2. Electronic Engineering

Desired skill set:

- Siemens/Beckhoff PLC
- FPGA based system design
- Analog/Digital Circuits design, data acquisition
- Design of low-noise electronics operational at cryogenic temperatures
- Familiarity with detector controllers

Assignments:

- Development, testing of electronic systems for instrumentation and detectors

Duty Station: Garching, near Munich, Germany

3. **Optical Engineering**

Desired skill set

- Integration and alignment of opto-mechanical components

Assignments

- AIT of instruments

Duty Station: Garching, near Munich, Germany

4. **Mechanical Engineering**

Desired skill set

- FEA analysis, interest in system engineering of opto-mechanical systems, e.g large mirror deformation, earthquake analysis
- Mechanical engineering in the area of instrumentation and cryogenic systems
- Structural steelwork, handling, lifting and structural assembly

Assignments:

- ELT Dome and Main structure and/ or other subsystems
- Paranal Instrumentation

Duty Station: Garching, near Munich, Germany