



ESO

European Organization
for Astronomical
Research in the
Southern Hemisphere



For the Technology Division at its Headquarters in Garching near Munich, Germany, ESO is opening the position of a

Mechanical Engineer / Project Engineer

(Career Path V)

Purpose of the Job:

The position is in the Mechanical Systems Department in the Technology Division at ESO's Headquarters in Garching near Munich. The department comprises a group of about 12 mechanical engineers and draftspersons who are responsible for the definition, design and manufacture of complex mechanical systems for advanced optical and infrared astronomical instrumentation and telescope systems required for ESO's Observatories in Chile.

ESO is presently studying a possible 30–60m diameter European Extremely Large Telescope (E-ELT). The E-ELT project is broken down in a number of work-packages. Within ESO's matrix structure, your role as a Mechanical Engineer/Project Engineer will be to develop one E-ELT or other project work-package, such as a mirror unit with precision multi axis adjustment, or other mechanical or opto-mechanic device, working in a multi-disciplinary project team and in collaboration with industrial firms and external institutes. You will also be responsible for following up the related design and manufacturing contract with the external contractor.

Responsibilities and working environment:

You will be a member of the mechanical engineering team of the E-ELT project and work in a collaborative and international environment. Your main responsibilities will include:

- The system definition, specification, tendering, contract management, integration and the commissioning of an ELT subsystem with the support of other ESO engineers.
- Contribute to other telescope subsystems by preparing and reviewing design concepts, specifications and interface definitions.
- Collaborating with ESO engineers from other projects and observatories, to optimise system performance, define common approaches and standards and share experience.

Qualifications:

You must have a University degree in Mechanical Engineering and must have an excellent command of English both written and oral.

Experience:

You should have at least 8 - 10 years of professional experience in projects and in particular in the design and management of complex multi-disciplinary systems. You should also be familiar with system engineering and analysis (including error budgets and requirements definition), high precision electro-mechanical positioning systems and contract and project management.

Experience in leading a small group of engineers/technicians and good knowledge in the use of 3D-CAD systems, opto-mechanical design, basic optics and FE analysis would be an asset.

Competences:

Work both on your own initiative and as part of a team, and build strong collaborative working relationships with people from different cultural backgrounds and disciplines.

Provide clear, concise and timely oral and written communications, identifying key issues, examining options and proposing a way ahead.



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Balance conflicting demands and priorities and respond quickly to changes in line with agreed overall objectives.

Willingness to acquire new skills, keep up-to-date with the tools used in the daily work, adapt to new procedures and identify ways to optimize the workflow.

Monitor progress of your work, deliver to agreed deadlines and standards, and be able to work under pressure.

Duty Station: Garching near Munich, Germany. Frequent visits to contractors and to the ESO Observatories in Chile may be required.

Starting Date: As soon as possible.

Contract and Remuneration: We offer an attractive remuneration package including a competitive salary (tax free), comprehensive pension scheme and medical, educational and other social benefits, as well as, financial help in relocating your family and the possibility to place your child(ren) in daycare up to the age of 3.

The initial contract is for a period of three years with the possibility of a fixed-term or indefinite extension. The title or grade may be subject to change according to qualification and the number of years of experience.

Application: If you are interested in working in areas of frontline technology and in a stimulating international environment, you are invited to apply online at <https://jobs.eso.org/>. Applications must be completed in English and should include a motivation letter and CV.

Closing date for applications is 15 February 2009.

Although recruitment preference will be given to nationals of ESO Member States (members are: Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Italy, the Netherlands, Portugal, Spain, Sweden, Switzerland and United Kingdom) no nationality is in principle excluded.

The post is equally open to suitably qualified male and female applicants.