



## ING Job Description

**Grade D**

# Mechanical Engineer

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### Department / Group

Operations

### Hierarchical Dependency

Head of Operations

### Functional Dependency

If different

Senior Mechanical Engineer

### PURPOSE

#### Main purpose for the post

To contribute mechanical engineering knowledge and experience to a multi-disciplinary operations team responsible for the maintenance and development of ING telescopes, instrumentation and auxiliary systems.

### Associated duties and responsibilities

- To provide mechanical engineering support to ensure the daily hand-over of a working telescope and instrumentation.
- To take an active role in the planning and execution of the maintenance programme for all of ING's mechanical systems.
- To prioritise work based on strategic objectives and contribute to the development and delivery of ING's astronomy programmes.
- To exercise judgement and interpretive abilities in addressing mechanical issues that are sometimes less likely to be governed by standards, guidelines, or best practices.
- To understand the mechanical systems and apply this knowledge and experience where appropriate.
- To represent the ING through collaborations and at events.
- To take decisions in specific skill areas related to mechanics.
- To provide mechanical advice and information to colleagues through the use of appropriate communications.
- Be responsible for delivering objectives, in the area of mechanics, where only the key parameters (e.g. KPIs, milestones or end results) are defined.

- To contribute to the formation and revision of ING's engineering policies.

#### Appointment

100%

#### Mobility

Daily travel to the telescopes and occasional off-island travel

#### Remarks

N/A

### RESPONSIBILITIES

#### People management

0

#### Annual budget management

0

#### Results / Other Responsibilities

### REQUIREMENTS

#### Education

*Minimum*

*Preferred*

University degree in a mechanical-related discipline.

Master's degree in mechanical engineering

#### Experience

*Minimum*

*Preferred*

1. One year as an engineer in an operational environment
2. Experience in the specification and procurement process of engineering systems
3. Experience of mechanical joining and manufacturing techniques
4. Experience with Microsoft Office and data analysis and visualisation software
5. Experience with project management processes and procedures.

1. Two years working with astronomical telescopes, instrumentation or in a related scientific discipline
2. Experience dealing with health and safety issues in the workplace

#### Specialist competencies

From ING's Competencies Dictionary at

<https://titania.ing.iac.es:8444/display/ING/Description+of+ING+Competencies>

#### *Technical disciplines*

*Level*

Working knowledge of 3D CAD package

Medium

Knowledge of engineering construction drawings

High

Knowledge of hydraulic systems

Medium

#### Transversal competencies

#### Personal Competencies

Basic

Intermediate

Advanced

Expert

Analytical

X

Decision making

X

Initiative, proactivity

X

Flexibility, adaptability

X

Personal management			X	
<b>Relational Competencies</b>				
Effective leadership		X		
Team work			X	
Effective communication			X	
<b>Functional Competencies</b>				
Strategic thinking		X		
Planning, organisation			X	
Resource optimisation		X		
<b>Technical Competencies</b>				
Written communication			X	
Information technology			X	
Foreign languages		X		
Health and safety			X	
Multidisciplinary		X		