



# Mechanical Design Engineer

## **Job description:**

Together with the team, you will develop optomechanical components, subsystems and instruments for astronomy. Developing subsystems and instruments for the ELT are projects that are being realized by a consortium of research institutes in several European countries, some under the leadership of the Dutch Research School for Astronomy (NOVA). You will be part of this interdisciplinary, international consortium.

Your duties and responsibilities consist of, but are not necessarily limited to:

- Conceptual design of opto-mechanical systems and components
- Detailing of mechanical designs while building on the concept design
- Design within cryogenic (+ ultra-high vacuum) boundary conditions
- Perform various levels of subsystem performance modeling and/or analysis as needed
- Participate in regular project, system and subsystem reviews
- Provides contributions to documentation for design and analysis reports
- Possible travel between the main METIS locations may be needed (Dwingeloo and Leiden, The Netherlands) as well as travel to international partners (mainly within Europe)

## **Job requirements:**

- At least 5+ years relevant experience in opto-mechanical design and engineering or related precision engineering
- Proficient in 3D CAD design (experience in using Siemens NX is a strong plus)
- Proficient oral, written and interpersonal communications skills
- A bachelor or equivalent degree in mechanical engineering or equivalent experience
- Experience building optical and/or infrared instruments and cryogenics is a plus

## **Location:**

The location for this job is the NOVA Optical Infrared Instrumentation group at ASTRON in Dwingeloo.