Electronics and Control Software Engineer

Job description:
As an experienced Electronics and Control Engineer at NOVA you will be responsible for the functionality of opto-mechatronical systems in astronomical instrumentation. This can be an extremely accurate positioning module or subsystem of a spectrograph or infrared camera for the European Extremely Large Telescope (E-ELT). You will design the electronics and control strategies, analyze the performance of these designs, and organize the realization and testing of the hardware. You are familiar with ISO and safety requirements, programming of motor controls, PID controls, PLC programming, producing design documents including cables and connector layout. Your work is done in close collaboration with project managers, systems engineers, mechanical designers and other engineers. You will get to work on cutting edge technologies and innovative scientific instruments.

Job requirements:
- Extensive experience in design, analysis and realization of accurate control systems
- Hands-on experience in programming PLCs, hardware building and testing
- Proficient oral and written communications skills
- Bachelor or Masters degree in electrical or electronic engineering

Important Additional skills:
- Experience in the design of vacuum and cryogenic equipment, incl. cabling and soldering
- Experience with tolerancing and interface definition
- Experience in the design of scientific instrumentation or aerospace systems and the development methods used in these fields
- Affinity with optics, telescopes or astronomy

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