

Instrumentation physicist/engineer for the METIS/ELT project

I. Physics Institute

With approximately 50,000 students, the University of Cologne is one of the largest universities in Germany and ranks among the Excellence Universities. It employs over 600 professors and 7,000 academic and non-academic staff.

The position is opened in the context of the ELT/METIS project for astronomy and astrophysics. The I. Physics Institute, as a consortium member, is responsible for the delivery of the Warm Calibration Unit. This activity is being pursued since 2016 in the group of Prof. L. Labadie (<https://astro.uni-koeln.de/labadie.html>)

YOUR TASKS

- » take the role of system lead of the project
- » manage the interface with the system leads of the other subsystems
- » define and organize the key tasks to bring the project to the Final Design Review (FDR) phase in collaboration with the opto-mechanical engineering people at our institute
- » lead the effort on the thermal and electrical design for the WCU
- » actively contribute to the documentation writing
- » prepare the procurement phase for the Assembly, Integration and Validation (AIV) phase

YOUR PROFILE

- » Master's or PhD degree in experimental physics, engineering or related discipline
- » Some level experience – either in industry, academia or during the course of the PhD – in the development of astronomical instrumentation or a documented participation to large scientific projects
- » Good understanding of all physical aspects related to optics, mechanics and thermal sciences, and their concrete application to instruments
- » The knowledge of physics design software such as Zemax, Comsol, Ansys, Creo, or Autodesk would be a strong asset
- » Experience with Matlab, IDL or Python is expected
- » Good communication skills
- » Good knowledge of the English language

WE OFFER YOU

- » to work on a hot topic in a highly international environment
- » a diverse and fair working environment
- » Support in reconciling work and family life
- » Flexible working time models, full-time positions suitable for job sharing
- » Extensive advanced training opportunities
- » Occupational health management offers
- » Local transport ticket at a discount for UoC employees

The position is available on a full-time basis for initial period of 1 year starting at earliest beginning of June 2019 with a possible renewal for up to three years from July 2020 once the next third-party funding application is successful. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group 13 TV-L of the pay scale for the German public sector.

The University of Cologne promotes equal opportunities and diversity in its employment relations. Women are expressly encouraged to apply and given priority in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We expressly welcome applications from individuals with severe disabilities or people of equivalent status. Severely disabled applicants of equal merit and qualifications will be given priority.

Please apply online <https://jobportal.uni-koeln.de>. Please upload a CV, a brief statement of activity (letter) and two referees that could be contacted directly. The advertisement number is Wiss1904-03.

The application deadline is 30.04.2019.