

ESO Portuguese Traineeship Opportunities 2014

3. VLT Department	Directorate of Engineering
Job code	ESO-DE(3)
Education, knowledge and skills requirements	Technical graduate interested in hands-on practical experience in opto-mechanical alignment and testing of complete systems. Knowledge in optics and/or control systems is desirable.
Project information	<p><i>Opto-mechanical alignment and testing of complete systems</i></p> <p>The tasks include:</p> <ul style="list-style-type: none"> -Assembly and alignment of an opto-mechanical test bench reproducing the optical and mechanical characteristics of the VLT Auxiliary Telescopes characterisation and verification of the test bench (F-number, stability, wavefront quality...); -Testing and verification of the individual components making the NAOMI systems (CCD cameras, deformable mirrors, optical components...); -Installation and alignment of the NAOMI systems on the test bench (4 of them have to be built and tested, in sequence); -Calibration of the systems; -Characterisation of the performance (quality of the correction in different conditions, transfer function, stability...).
Learning opportunities for the Trainee	Depending on the length of the training, part or all of the above tasks could be performed. Possibly at the end, the trainee could take part to the installation of the first system on the telescope at Paranal observatory (Chile).