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Your environmental and material testing lab TEA AG in Wetzikon is staffed by an interdisciplinary laboratory team of engineers and technicians that specialise in testing products from the electronics and automotive engineering industry, the railway sector, consumer product and defence industry, and in helping our customers to develop, qualify and produce marketable and reliable products. Our services: Environmental testing, Material testing, Engineering, Test systems. We can test your products under any load conditions - temperature, such as temperature changes, moisture, heat and ice - vibrations, mechanical shock with resonance analyses etc. We also perform IP tests (water and dust) for enclosures, seals and modules for road vehicles. More detailed information about our services: Vibration/shock, Transport tests and simulation, Temperature/climate, IP tests, UV tests, Flammability, fire behaviour, Fluid resistance, EMC/ESD. Material engineering, Material testing. We analyse materials and perform routine tests on components and assemblies, which include testing and analysing a range of properties. Testing specific material properties: Tensile, pressure and hardness tests, Part, component and device failure analyses, X-ray analyses (digital sensor), Part, component and device failure analyses, Chemical resistance, Damage analyses, Fire cause analyses for devices and circuit boards, Insulation failure and electrical

breakdown analyses on parts, components and devices  
Part and component wear  
Corrosion, oxidation and surface changes on parts, components and devices  
Solder joint, screw coupling and crimp connection assessments  
Identifying and eliminating the causes of failures is key to assuring a product's safety and reliability. Engineering  
Advice concerning relevant standards, statistical power for product qualification tests?  
Test engineering comprises the development of test strategies: identifying what is being tested; test concepts: specifying how it is going to be tested; test procedures: specifying how the test is going to be performed  
Material engineering comprises assessing how changes to materials are going to affect their properties in terms of wear, corrosion and oxidation, as well as their electrical and thermal characteristics  
Process engineering comprises assessing the effects of any changes to the materials, e.g. flux, auxiliary materials such as solvents, the process temperature or the temperature  
Test systems  
Design - Development - Maintenance  
Test stands and systems: We build exclusive test systems for testing products during their manufacture and special test stands for R&D and QM. This comprises the design, development, implementation and maintenance of test systems for mechanical, electrical, mechatronic components, assemblies and products. The test systems are used during the design phase, production phase, servicing or as test apparatuses for life cycle and reliability tests or product qualification testing.  
Software:  
This comprises the development of bespoke software. This is generally done using the development platform LabVIEW™.  
Jobs  
Senior Test Engineer Hardware, 60-80%  
Praktikant Test Engineer, 30-50%

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