

Senior Failure Analysis Engineer - Physical Analysis of Electronic Modules

Your tasks

HOW YOU WILL MAKE AN IMPACT

We are seeking a highly experienced FA engineer with demonstrated proficiency in analytical thinking and practical skills in performing physical analyses. The role involves identifying root cause defects in electronic and electro-mechanical products and circuits, including the electronic components used. Besides performing analyses, the tasks include collaborating with design engineering, supplier quality management, manufacturing quality engineers, and suppliers to enhance the quality of Continental products. The FA engineer will create detailed analysis reports, provide technical support for findings, and share expertise within the global network of analysis labs.

We are currently hiring two FA engineer positions for our QL Harmon Road analysis lab. One of these positions will include supervisory responsibilities for a small analysis team of 5-8 engineers, contingent upon the candidate's people management qualifications.

Your profile

WHAT YOU BRING TO THE ROLE

Skill Set:

- Outstanding problem-solving skills, attention to detail, experience in driving analysis to root cause.
- Excellent written report and presentation skills.
- Ability to communicate highly technical issues/results in simple terms.
- Strong collaboration skills, with the ability to work effectively in local and international teams and share knowledge.
- Proven ability to work independently with minimal supervision.
- Ability to work under pressure.

Experience:

- Minimum 5 years of experience in performing physical analysis of electronic modules, circuits and components or qualifications thereof.
- Advanced knowledge of electronics, electronic and electromechanical components, and their materials.
- Comprehensive understanding of the impact of real-world effects on electronic modules and components (e.g. bias voltage, current flow, humidity, thermal effects, etc.).
- Experience in using functional analysis techniques for electronics



Job ID
REF77902Y

Field of work
Quality

Location
Auburn Hills

Leadership level
Leading People

Job flexibility
Hybrid Job

Legal Entity
Continental Automotive Systems, Inc.

such as e.g. curve tracing, probing, HiPot testing.

- Proficient in at least 3 of the following analysis techniques: optical imaging, cross-sectioning of components and/or modules, 2D/3D X-ray imaging, Scanning Electron Microscopy/EDX.

Education:

- Bachelor's degree in electrical engineering or equivalent required

Legal authorization to work in the U.S. is required. Continental will not sponsor individuals for employment visas now or in the future for this job posting.

Continental will not offer relocation assistance for this opportunity.

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ADDITIONAL WAYS TO STAND OUT

- Masters degree in electrical engineering or equivalent required - or alternately work experience which covers the theoretical background of a master's degree as required for electronics failure analysis
- Experience in the analysis of thermal incidents.
- Familiar with automotive product electronic design, quality, validation and manufacturing process.
- Aware of current industry standards and regulations related to electronic circuits, modules and components.
- Skilled in using the following analysis techniques: Focused Ion Beam (FIB), Scanning Acoustic Microscopy (SAM), Auger Microprobe, X-ray Photoelectron Spectroscopy (XPS).
- Experience in leading a small team (direct or indirect)

Our offer

THE PERKS

- Immediate Benefits
- Robust Total Rewards Package
- Paid Time Off
- Volunteer Time Off
- Tuition Assistance
- Employee Discounts, including tire discounts
- Competitive Bonus Programs
- Employee 401k Match
- Diverse & Inclusive Work Environment with 20+ Employee Resource groups.

- Hybrid Work
- Employee Assistance Program
- Future Growth Opportunities, including personal and professional
- And many more benefits that come with working for a global industry leader!

EEO-Statement:

EEO / AA / Disabled / Protected Veteran Employer. Continental offers equal employment opportunities to all qualified individuals, without regard to unlawful consideration to race, color, sex, sexual orientation, gender identity, age, religion, national origin, disability, veteran status, or any other status protected by applicable law. In addition, as a federal contractor, Continental complies with government regulations, including affirmative action responsibilities, where they apply. To be considered, you must apply for a specific position for which Continental has a current posted job opening. Qualifying applications will be considered only for the specific opening(s) to which you apply. If you would like to be considered for additional or future job openings, we encourage you to reapply for other opportunities as they become available. Further, Continental provides reasonable accommodations to qualified individuals with a disability. If you need assistance in the application process, please reply to Careers@conti-na.com or contact US Recruiting at 248.393.5566. This telephone line and email address are reserved solely for job seekers with disabilities requesting accessibility assistance or an accommodation in the job application process. Please do not call about the status of your job application, if you do not require accessibility assistance or an accommodation. Messages left for other purposes, such as following up on an application or non-disability related technical issues, will not receive a call back.

Ready to drive with Continental? Take the first step and fill in the online application.

About us

THE COMPANY

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent, and affordable solutions for vehicles, machines, traffic, and transportation. In 2023, Continental generated sales of €41.4 billion and currently employs around 200,000 people in 56 countries and markets.

The Automotive group sector comprises technologies for passive safety, brake, chassis, motion, and motion control systems. Innovative solutions for assisted and automated driving, display, and operating technologies, as well as audio and camera solutions for the vehicle interior, are also part of the portfolio, as is intelligent information and communication technology for the mobility services of fleet operators and commercial vehicle manufacturers. Comprehensive activities

relating to connectivity technologies, vehicle electronics and high-performance computers round off the range of products and services. Are you ready to shape the future with us?