

2022-27567 Failure Analysis Engineer M/F

General information

Job level	30 - Graduate Entry Level
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Position description

Regions	Europe
Country	France
States	Rousset
Posting title	Failure Analysis Engineer M/F
Regular/Temporary	Regular

WHY JOIN US

We are 48,000 men and women designers and manufacturers of microelectronic technologies. We collaborate with 200,000 customers and thousands of partners. With them, we design and create products, solutions and ecosystems that address their challenges and opportunities and the need to contribute to a more sustainable world. Our advanced technologies enable smarter mobility, more efficient energy and power management, and large-scale deployment of the Internet of Things (IoT) and 5G

ST is certified Top Employers France 2022. This certification recognizes our commitment to integration, equal opportunities, employability, and quality of life at work

OUR COLLABORATION

In a context of activity growth and new technical challenges, we are recruiting a Failure Analysis Engineer. You will join our Rousset Product Analysis Laboratory within the Product Quality and Reliability group, consisting of a dynamic and experienced team of around thirty people (Engineers and Technicians)

Mission :

- manage the complete flow of product failure analyses addressing sectors such as mobile telephony, automotive, medical. In compliance with given commitments to our customers, determine the nature of the defect causing the electrical failure, and contribute to root causes identification
- in close interaction with the customer support, quality, R&D and manufacturing teams in Europe and Asia. You may be called upon to collaborate with the other laboratories of the group in France, Italy or China
- as analyst engineer, have an overview of the complete flow of a failure analysis but will as a priority develop a strong expertise on the electrical fault isolation and sample preparation. These techniques use laser, photodetectors, thermal cameras, or electromagnetic pulse injections to highlight and locate the incriminated fault zone and, to enable compatibility with these technics, polishers, manual bonder, optical microscopes for sample preparation.

After a more in-depth study carried out using specialized tools for investigations at the nanometric scale or computer tools to study architecture of the devices, Physical analysis will be performed under your supervision to provide observation and characterization of the physical defect using various techniques such as mechanical or chemical layer removal, cross-sections using ion beam, electronic imaging.

- synthesize the technical results report to share them in French or English.
- take in charge laboratory equipment: planning and maintenance, calibration follow-up, technical developments.
- develop new processes or techniques addressing future technological challenges.

Our technology starts with you. Come join our team!

Profile

YOUR PROFILE

BAC + 5: Engineer, Master 2 or equivalent

Graduated from an Engineering School

Good knowledge of semiconductor physics and electronics

Mastery of elementary structures of microelectronics (diode, transistor) and standard measuring devices (power supply, oscilloscope, etc.).

Knowledge of advanced CMOS processes and the design of an electronic chip would be a plus

You ideally have a first expertise in an industrial analysis laboratory.

Rigor, analytical mind, meticulousness, affinity for investigation, customer orientation, teamwork are the qualities that will allow you to succeed in this position.

Language : French fluent and English fluent

OUR SITE

In Rousset, we are 3000 employees with 30 different nationalities. Our site offers a wide range of professions, thus offering many prospects for internal development. At the foot of the Sainte Victoire, 20kms from Aix-en-Provence and 40kms from Marseille, the Rousset site combines technological excellence, respect for the environment and quality of life.

Candidate criteria

Education level required	5 - Master degree
Experience level required	2-5 years
Languages	French (3- Advanced) English (2- Business fluent)

Requesting party and reason for requisition

Desired start date	21/11/2022
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