

# Principal Reliability Engineer – GaN (m/f/d)

## What you will do

- Develop and manage the reliability test plan for E-mode GaN products and calculate extrapolated lifetime for a given mission profile
- Monitor the internal reliability test to fail tests in our labs (HVOS, TC, HTOL, etc) and manage reliability tests with external partners
- Analyse reliability test results data to extract acceleration parameters
- Identify and address reliability gaps and drive reliability improvement activities
- Collaborate with the R&D team and laboratories to develop/improve tests and analysis methods of E-mode GaN products
- Monitor failure analysis investigation to understand the main wear-out failure mechanisms

## What you will need

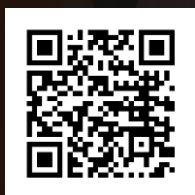
- At least a master's degree or equivalent in Physics, Electronic Engineering or a similar discipline
- Strong knowledge of GaN semiconductor physics
- Understanding of mechanical, electrical, and thermal failure modes in semiconductor products, and failure analysis techniques
- Knowledge of international quality standards such as JEDEC, and AEC-Q101, reliability test to fail methods, and reliability test equipment
- Strong data analysis skills (JMP, MATLAB, Minitab, etc.) with clear written and verbal communication skills

## More information?

For more details please contact: [john.perez@nexperia.com](mailto:john.perez@nexperia.com)

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### Location

Manchester, Hamburg, and Munich

### Employment type

Fulltime

### Contract duration

Permanent

### Job-id

R-20010991