



Principal Engineer, Data Scientist

Job description

As a Data Scientist for the Product Test Engineering team, you will lead and implement new and advance end-to-end solutions on product / process productivity & quality improvement, leveraging on the use of data analytics / data science techniques. Apply now!

In your new role you will:

- Lead and implement **new and advance end-to-end solutions on product / process productivity & quality improvement with optimal use of data analytics / data science techniques**
- Explore & **deploy relevant advance methods in data analysis & tooling** including development/proto-typing - closed interaction with engineering business users & experts & IT
- Lead in **developing Yield / Test / Quality enhancement methodology** and business processes for harmonization / optimization for cross site deployment & implementation
- Able to **leverage on advanced data analytics skills**, work closely with Engineering team towards problem solving relating to product, process & test technology topics across manufacturing domain.
- Establish & **provide competent training on data analysis/science & statistical methods** to engineering peers/community
- Develop **optimum & efficient data analysis methodologies** including rule-based / logical decision for engineering work processes optimization & effectiveness
- Continuously explore and **evaluate state of the art techniques** to improve **Artificial Intelligence solutions efficiency and effectiveness**
- Drive & collaborate with technical experts on data analytics development that support productivity / quality initiatives / projects

Profile

You are best equipped for this task if you have:

- **PhD / Master's Degree in Data Science / Engineering / Computer Science / Info-comm Technology** with more than 5 years of relevant experience in Semiconductor or related industry
- **Applied knowledge in statistical data analysis, data mining / scripting (eg. Python, R)** with **good understanding in manufacturing engineering processes, methods & analytical tools**
- **Applied experience in Artificial Intelligence & Machine / Deep Learning projects & applications (eg. manufacturing) required**

At a glance

Location:

Job ID: **345171**

Start date: **as soon as possible**

Entry level: **5+ years**

Type: **Full time**

Contract: **Permanent**

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Job ID: **345171**

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- Experience in application of **data analysis & data visualization software tools eg. Tableau, Power BI and techniques**
- Knowledge of **machine / deep learning frameworks such as Keras, Tensorflow, Pytorch**
- **Relevant knowledge in Front-End / Assembly / Final-Test manufacturing process**
- Candidate with **experience in product engineering & device testing / Advance product & process control / problem solving and process improvement methodologies (8D, Lean 6 Sigma) advantageous**
- Strong communication skill, self-driven individual with ability to engage and collaborate well in cross-functional team

Why Us

Part of your life. Part of tomorrow.

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces while taking a conscientious approach to the use of natural resources.

In accordance with the requirements set by the Singaporean Government, Infineon Technologies Asia Pacific Pte Ltd (“Infineon”) can only allow individuals who are (a) fully vaccinated, (b) certified to be medically ineligible for a vaccine or (c) have recovered from COVID-19 within a prescribed period, onto company premises. Therefore, Infineon requires all new employees, as well as contractors and business partners, to be fully vaccinated against COVID-19. “Fully vaccinated” means individuals have completed the full regime of an approved COVID-19 Vaccine as listed under the World Health Organization (WHO) Emergency Use Listing (EUL) including the respective post-vaccination period to ensure the vaccine has become full effective. Anyone who is unable to be vaccinated due to an approved and/or recognised exemption condition may apply for special consideration.

