



## Principal Manufacturing Excellence Engineer

### Job description

In this role, you will be the subject matter expert related to manufacturing excellence framework, able to coach and guide cross site engineers, such as statistical, Data Enveloping and Matching Index Analyses.

In your new role you will:

- Responsible to lead and/or coach end-to-end data analytics & automation projects covering MNC semiconductor backend sites. Key roles should include but not limited to identify data source (data exploration), data extraction, preparation, processing, analyzing data trends, correlations, finding patterns, translating big data into useful insights to drive business and operational decisions with data visualization.
- Be the subject matter expert related to manufacturing framework, able to coach and guide cross site engineers, such as statistical, Data Enveloping, Matching Index Analyses & etc.
- Be able to leverage advanced data analysis & scripting skills to build semi-auto / automated engineering solutions for complex data analyses and models, transform mass production into meaningful insights and actionable plan/tasks. Use systematic approaches to strive towards proactive problem solving with reference to backend manufacturing excellence framework and concept.
- Build infrastructure to capture meaningful learnings & insights and develop input-process-output models for effective production controls and future references.
- Collaborate and/or partner with domain experts / subject matter experts (e.g. IT) to build applications and/or tools towards Artificial Intelligent and Industry 4.0 standard, simplify complex works and data to achieve standardized & harmonized practices across Backend Sites.
- Understand business context, identify and scope business requirements and priorities, formulate problem / opportunity statements through rigorous information gathering and analysis as well as clarification of the solutions, initiatives and programs to enable effective delivery.

### Profile

You are best equipped for this task if you have:

- Master Degree or minimum Bachelor's degree in Data Science, Computer Science, Engineering or related field
- Demonstrated in-depth statistical knowledge application in semiconductor manufacturing environment and mathematical know-how

### At a glance

Location: **Melaka**  
Job ID: **317374**  
Start date: **immediately**  
Entry level: **5+ years**  
Type: **Full time**  
Contract: **Permanent**

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- Experience in leading or coaching global backend organizations to define infrastructure & script end-to-end automated engineering solutions for high volume manufacturing environment, as well as leveraging big data to strive for speedy problem solving & prevention analyses across sites.
- Competent to drive complex or highly integrated problem solving and solutions through data mining/ analysis, experience as process / yield integration will be added advantage.
- Demonstrated excellence skill in collaborating with cross functional teams will be crucial.
- Experience in script / programming languages such as Python, R, Scala & data visualization tools e.g. Tableau, Power BI and techniques.

