

# Driving decarbonization and digitalization. Together.



## Principal Engineer I4.0 & Automation

### Job description

We are seeking an experienced Principal Engineer who is a skilled Full Stack Developer and experienced in manufacturing automation to join our team. You will be responsible for designing, developing, and deploying scalable, efficient, and reliable web applications. You will work on both front-end and back-end development related to manufacturing automation and smart factory.

In your new role you will:

- Design, develop, test, and deploy web applications using a range of programming languages, including but not limited to JavaScript, HTML/CSS, Python, Ruby, or PHP
- Work on both front-end and back-end development, including UI/UX design, API integration, and database management
- Collaborate with cross-functional teams, including automation development, factory operations, factory IT, etc to ensure successful project delivery
- Participate in code reviews and contribute to the improvement of the overall code quality
- Troubleshoot and debug issues, identifying and implementing solutions to improve application performance and scalability
- Stay up-to-date with industry trends, best practices, and emerging technologies, applying this knowledge to improve our web applications
- Develop and maintain technical documentation, ensuring that all code is properly documented and easily maintainable
- Work in an Agile environment, participating in daily stand-ups, sprint planning, and retrospectives
- Knowledge and experiences in data governance practices
- Manage complete software life cycle from designing, development, testing, deployment & maintenance
- Effectively analyze problems, harmonize requirements and provide proposals
- Design architecture for systems and databases

### Profile

You are best equipped for this task if you have:

- Bachelor's degree in Computer Science, Information Technology, or a related field
- At least 5+ years of experience in full stack development, with a strong portfolio of projects showcasing your skills

### At a glance

Location:

Job ID: **HRC0479566**

Start date: **as soon as possible**

Entry level: **5+ years**

Type: **Full time**

Contract: **Permanent**

Apply to this position online by following the URL and entering the Job ID in our job search. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **HRC0479566**  
[www.infineon.com/jobs](http://www.infineon.com/jobs)



- Proficiency in a range of programming languages, including but not limited to JavaScript, HTML/CSS, Python, Ruby, or PHP
- Experience with front-end frameworks such as React, Angular, or Vue.js, and back-end frameworks such as Node.js, Ruby on Rails, or Django
- Knowledge of database management systems, including relational databases such as SQL, Oracle, Elasticsearch and NoSQL databases such as MongoDB, Hadoop, etc
- Experience with version control systems, including Bitbucket
- Strong understanding of web development principles, including responsive design, accessibility, and security
- Excellent problem-solving skills, with the ability to debug and troubleshoot issues efficiently
- Strong communication and collaboration skills, with the ability to work effectively in a team environment
- Experience with Agile development methodologies, including Scrum and Kanban
- Experience with cloud-based platforms, including AWS, Azure, OpenShift, etc
- Knowledge of containerization using Docker
- Familiarity with DevOps practices, including continuous integration and continuous deployment
- Experience with testing frameworks, including Jest, Enzyme, or Pytest
- Experience in building applications using Outsystem, Python, Java, C#, C++, etc
- Knowledge of web performance optimization techniques
- Implementation & deployment experiences in semiconductor manufacturing environment
- Experience in manufacturing work methods and interaction to high automation systems
- Good communication skills across all levels of corporate hierarchy
- Good analytical skills and ability to visualize physical vs logical models

## Benefits

- **Melaka:** Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Exempt working hours are flexible within core hours (9am-12pm & 2pm- 5.15pm); Home office options for certain tasks or due to personal circumstances. Applicable to exempt employees working on office hours only; Part-time work possible for exempt employees only; Exempt staff could apply up to 3-month sabbatical leave, subject to business situation; Medical coverage; In-house clinic operates 24 hours, doctor consultation possible from 9am to 5pm; Health promotion programs; Social Recreation Center with facilities, such as gym room, squash, badminton and netball court, zumba and yoga classes, etc.; On-site Cafeteria; Paid sick leave according to law; Additional 3% to Employee Provident Fund after 10 years service with Infineon Malacca; Re-employment opportunities; Productivity incentive bonus; Bus service for shift employees ; Allocated carpark for disabled and pregnant employees

## Why Us

### Driving decarbonization and digitalization. Together.

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.



**We are on a journey to create the best Infineon for everyone.**

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant´s experience and skills.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

