



## Master Thesis: Application Engineering Tool

### Job description

We are looking for motivated and committed students (f/m/div)\* who are willing to learn new things and work in an innovative company acting on a global scale. An exciting working environment characterizes this internship as well as an attractive salary. Apply now for this internship in Villach and support our team.

In order to be competitive in the power electronic market, application engineers generate technical reports showing the benefits of using **Infineon power switches**. For this purpose extensive measurements are done on these devices producing a lot of data. This data is then stored and used to analyze the **devices behavior** in **different applications from different points of views**. The scope of the master thesis is to create a **web based application** that uses the measured data stored in the database to generate the final report based on the user requirements. Your tasks will include:

- Updates of the **existing database architecture** to accommodate data measured by different departments
- Creation of a **user-friendly web-based application** (UI) that includes already available python based algorithms developed by IFX engineers, to do analysis on the measured data
- **Release** of the **application** in the cloud using container platform provided by Infineon

### Further Information

Type of employment: Temporary / Full-time (flexible working hours from Monday to Friday between 6 a.m. and 7 p.m.)  
Duration: min. 6 months

**This thesis has to be written in cooperation with an university.**

### Profile

You successfully meet the requirements, if you are a motivated and committed student from the field of **Computer Science** or similar. You are best equipped for this task if you additionally offer:

- Good understanding of **python program language**
- Familiarity with **database architecture** and **SQL scripts**
- Knowledge of **web page languages** and **scripts** (HTML, CSS, JavaScript, JQuery, Ajax, etc.)
- Understanding of the **Django** (python based framework)

### At a glance

Location: **Villach (Austria)**  
Job ID: **359617**  
Start date: **Sep 01, 2022**  
Entry level: **0-1 year**  
Type: **Full time**  
Contract: **Temporary**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **359617**  
[www.infineon.com/jobs](https://www.infineon.com/jobs)

### Contact

**Lisa Derhaschnig**  
Student Attraction Manager



- Experience with **Docker containers**
- Insights into **Kubernetes container platform** (Open-Shift) to manage hybrid cloud
- Know-how of **automation tools** like Jenkins, used to build, deployed and automate any project onto the cloud
- A **structured way of working** with good **analytical thinking**
- Fluent communication skills in **English**

This position is subject to the collective agreement for workers and employees in the electrical and electronics industry (full-time), employment group B for bachelor students, employment group D for master students (<https://www.feei.at/wp-content/uploads/2022/05/minimum-salaries-white-collar-workers-2022.pdf>).

**Please attach the following documents (German or English) to your application:**

- Motivation letter
- CV
- Certificate of matriculation at a university
- Transcript of records
- Highest completed educational certificate (Matura certificate for Bachelor students, Bachelor certificate for Master students)
- Reference letter (optional)

## Benefits

- **Villach:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; Child care in Villach & Klagenfurt; On-site social counselling and works doctor; Health promotion programs; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement; Performance bonus; Accessibility, access for wheelchairs

## Why Us

**Part of your life. Part of tomorrow.**

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

**– Industrial Power Control (IPC) empowers a world of unlimited energy –**

Power semiconductors play a crucial role in increasing efficiency and reducing energy losses along the whole energy conversion chain.

As the global leader in power semiconductors, Infineon IPC delivers leading products and solutions for smart and efficient energy generation, transmission and consumption. We strive to make this planet a greener place where sufficient energy is accessible to everyone – wherever and whenever they need it.

*\* The term gender in the sense of the General Equal Treatment Act (GETA) or other national legislation refers to the biological assignment to a gender group. At Infineon we are proud to embrace (gender) diversity, including female, male and diverse.*

**Infineon Hub - Connect. Create. Challenge.**



The iHub at TU Wien represents an inspiring tech platform, networking area and event location, connecting Infineon Austria with tech experts, science specialists and young professionals.

Check out our upcoming events:

[Infineon iHub](#)

