

Driving decarbonization and digitalization. Together.



Internship: Battery Characterization (f/m/div)

Job description

Have you ever wondered how it is to work in a company that shapes the future? Infineon Connected Secure Systems (CSS) delivers security for a connected and protected present and future. We empower the world to connect with easy-to-integrate, smart and trusted solutions. You are curious about measurements of batteries and love working with Matlab, Python or similar? As an intern in our test development team, you will work on the implementation of an automated battery characterization setup and the analysis of the measured battery data. Sounds good? Don't miss the chance and apply now! Our team in Graz is looking forward to receiving your application!

This internship is aiming for the implementation of an automated battery characterization setup and the analysis of the measured battery data. Battery packs, consisting of up to hundreds of individual battery cells, are used to power electric vehicles. Each battery cell has to be monitored continuously by a battery management system in order to ensure safe and efficient vehicle operation. The foundation for each battery management system is a comprehensive dataset that links the measured battery data to the actual state of the battery. In order to be able to create this dataset, an automated battery characterization setup should be implemented and the measured battery data analyzed. Results will help in the design of future battery management systems.

In your new role you will:

- Learn about **batteries** and battery monitoring methods
- Improve your skills in **instrumentation automation** and **measurement data analysis**
- Document your results by writing and present your findings

Further Information

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

Duration: min. 6 months

Profile

You successfully meet the requirements, if you are a motivated and committed student from the field of **Biomedical Engineering, Electrical Engineering, Information and Computer Engineering** or similar. You are best equipped for this task if you additionally have knowledge and interest in:

- Electrical **measurements** of batteries

At a glance

Location: **Graz (Austria)**

Job ID: **HRC0968015**

Start date: **Nov 01, 2024**

Entry level: **0-1 year**

Type: **Part time**

Contract: **Temporary**

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: **HRC0968015**
www.infineon.com/jobs



Contact

Lisa Derhaschnig

Recruiter



- Instrumentation automation with MATLAB/Python/proprietary software
- **Data processing** and **signal processing** in MATLAB/Python
- Basic electronic **circuits** and PCB debugging

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/2023/05/minimum-salaries-white-collar-workers-2024.pdf>).

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

- Motivation letter
- CV
- Certificate of matriculation at a university
- Latest Transcript of records (not older than 6 months)
- Highest completed educational certificate (Matura certificate for Bachelor students, Bachelor certificate for Master students)
- Reference letter (optional)

Benefits

- **Graz:** Möglichkeit für Coaching, Mentoring & Netzwerken; Trainingsangebot & strukturierte Entwicklungsplanung; Möglichkeit zur internationalen Entsendung; Verschiedene Karrierepfade: Project Management, Technical Ladder, Management & Individual Contributor; Flexible Arbeitszeit: Vertrauensgleitzeit; Möglichkeit zum Home Office; Offenheit für Teilzeit (auch in der Elternzeit); Sabbatical; Sozialberatung & Betriebsarzt; Gesundheits- & Vorsorgeprogramme; Vergünstigtes Mittagessen; Versicherungsangebot zu attraktiven Konditionen; Arbeitgeberfinanzierte betriebliche Altersvorsorge; Offenheit für flexiblen Übergang in die Altersrente; Erfolgsbonus; Barrierefreiheit am gesamten Standort

Why Us

#WeAreIn for driving decarbonization and digitalization.

As a global leader in semiconductor solutions in power systems and IoT, Infineon enables game-changing solutions for green and efficient energy, clean and safe mobility, as well as smart and secure IoT. Together, we drive innovation and customer success, while caring for our people and empowering them to reach ambitious goals. Be a part of making life easier, safer and greener.

Are you in?

– Connected Secure Systems (CSS) delivers security for the connected world –

The **Connected Secure Systems (CSS)** segment offers comprehensive systems for a secure, networked world with a portfolio built around reliable, trendsetting microcontrollers as well as wireless connectivity and security solutions. Over the past decades, CSS has developed microcontroller, Wi-Fi, Bluetooth and combined connectivity solutions (known as connectivity combos) and hardware-based security technologies. The products are used in a broad range of applications: from consumer electronics, IoT and home appliances to IT equipment, cloud security and networked cars all the way to credit and debit cards, electronic passports and IDs. With its leading technologies in the areas of computing, connectivity and security, CSS makes a decisive contribution to protecting today's and tomorrow's networked systems.

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.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

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

[Click here](#) for more information about Diversity & Inclusion at Infineon.

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](#)

