



Master Thesis: Complex Impedance Measurement of automotive LIB Cells

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 Master Thesis in Graz and support our team!

In your new role you will:

- Learn about the basics of **LIB monitoring** (V/I/T) in automotive application
- Study the **methods of EIS** with dedicated excitation circuits
- Develop an **EIS capable hardware** based on Infineon device
- Verify the **development concepts** (HW/SW) with LAB equipment

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

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 **Electrical Engineering, Business Informatics** or similar. You are best equipped for this task if you additionally offer:

- Knowledge of **State-of-the-art LIB monitoring**
- Good understanding of **BMS architecture**
- Familiarity with **EIS**
- Interest in **HW development** and **verification**
- Know-how in **MATLAB programming**
- A **structured way of working** with **good analytical thinking**
- Fluent communication skills in **English** and/or **German**

This position is subject to the collective agreement for workers and employees in the electrical and electronics industry (full-time), employment group D for master students

At a glance

Location: **Graz (Austria)**
Job ID: **360554**
Start date: **Oct 03, 2022**
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:

Job ID: **360554**
www.infineon.com/jobs

Contact

Lisa Derhaschnig
Student Attraction Manager



(<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

- **Graz:** 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; On-site social counselling and works doctor; Health promotion programs; Discounted lunch possibilities; Private insurance offers; 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.

– Automotive (ATV) shapes the future of mobility with microelectronics enabling clean, safe, and smart cars –

Our semiconductors are essential for supporting the automotive megatrends: electromobility, automated driving, connectivity, and advanced security. They link the real and the digital world, driving the ever-advancing pace of automotive digitalization. Infineon ATV is the number one semiconductor partner in the fast-changing automotive world, based on our system knowledge and our passion for innovation and quality.

** 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](#)

