



Master Thesis: Electrochemical Preparation (f/m /div)*

Job description

You have a background in electrochemistry, experience in setting up electrical measurements and would like to write your master's thesis in an internationally operating high-tech company? Then take a look at this exciting master thesis! Here you will carry out a literature research to evaluate specific electrolytes and electrochemical processes and select suitable approaches to conduct a test series. By performing experiments with optical images and the scanning electron microscope (SEM) as well as by evaluating and documenting your results, your goal is to find the best combination and preparation method for selective etching and decoration. This way you will get insights into different Infineon sites and are able to make an essential contribution to improve failure analysis. You will help to keep the quality of our innovative products at the highest level in the future. That sounds like the right challenge for you? Then don't hesitate any longer and apply now! We are looking forward to getting to know you!

For this master thesis, your tasks will include:

- **Literature research** (specific electrolytes, electrochemical processes, cyclic voltammetry);
- **Electrochemical polishing** of embedded cross sections;
- **Sample preparation** (embedded cross sections) and **sample characterization** (Optical Mic, SEM, CV-curves);
- Planning of **electrochemical process experiments**;
- **Sample analysis** (Optical Mic, SEM+EDX).

Profile

You are best equipped for this task if you:

- Are studying **Physics, Chemistry, Material Sciences**, or a similar subject;
- Already gained **experience in electrochemistry and electrical measurement setups**;
- Are experienced in **programming (LabVIEW, Origin)** and are well versed in using **MS Office**;
- **Like working in cross-disciplinary teams** and have **very good problem solving skills**;
- Speak **English and German fluently**.

Please attach the following documents to your application:

- CV in English;
- Certificate of enrollment at university;

At a glance

Location: **Munich**
Job ID: **307655**
Start date: **immediately**
Entry level: **0-1 year**
Type: **Full time**
Contract: **Temporary**

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Student Attraction Manager



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