

Lead Controls Engineer (m/f/d)

Stuttgart

As our lead controls engineer, you will drive the development of our next-generation software-defined battery platform. You model, simulate and validate digital power control functions employing state-of-the-art model-based design workflows. Closely interacting with the entire product development team, you are responsible of system-level integration with battery management and safety functions. After optimizing your implementation for our in-house developed embedded hardware, you will escort our batteries through testing and certification all the way into mass-production.

About instagrid

instagrid is a pioneer of software-defined batteries driving the change from analog and stationary to digital and mobile electricity. We create a unique portable power supply with which we improve the way people perform their work: flexible, independent and efficient. Our intuitive high-power portable battery system makes work easy – no matter when and where. As an employer we believe it is our task to provide freedom and resources to our employees to achieve maximum impact in shaping a company that is led by the core values of fairness, participation, equality and transparency.

What we offer

- Shape the company by contributing with your individual strengths in a diverse team
- Contribute at eye level to develop an innovative and unique technology that really matters
- Experience the speed of a start-up coupled with many years of tech industry experience
- Grow your skills within a world-class team
- Take control of your workday at a workplace in the midst of a start-up co-working landscape characterised by innovation and ideas
- Receive competitive compensation and benefit from a family-friendly working environment

Your tasks

- Take ownership of the heart of our software-defined battery platform
- Improve and refine our leading-edge technology by modelling, simulating and validating suitable embedded power controls using analytical and model-based methods
- Rapidly iterate and test your ideas using latest rapid control prototyping tools and system-in-the-loop simulation

- Implement and optimize your functions on our custom embedded control hardware
- Perform final validation on system-level and support certification efforts
- Define the controls development roadmap as well as the engineering toolset you want to use
- Form a team around you as the company grows
- Flexibly support your colleagues all along the product lifecycle

Who we are looking for

- You have previously proven your competence in controls engineering or a related field, ideally backed by higher education in a MINT subject
- You like to take responsibility and work independently
- You have strong analytical skills and enjoy working on demanding tech topics
- You are experienced with embedded development, ideally C/C++ on ARM controllers
- You have a profound knowledge of SIMULINK and tools such as dSPACE, PLECS or Speedgoat
- You are curious about modern batteries and digital power electronics or have worked in the field before
- You are highly proficient in English, spoken and written. German is considered a plus

That sounds like you? We are looking forward to your application!
Contact Sebastian at jobs@instagrid.co

