

PhD Student – Formal Methods (f/m/d)

Location: Berlin
Start Date: immediately

Our Company

OpenSynergy is a growing software company based in Berlin. Our core product COQOS is an open software platform that makes it possible to harness the benefits of Linux and Android for in-car infotainment systems. By using microkernel and virtualization technology, COQOS can securely integrate safety-related AUTOSAR-based applications and infotainment applications into a single chip. With our customers and partners we form a network around the world.

OpenSynergy is an independently managed company with head office in the center of Berlin and additional offices in Munich and the USA. The company is constantly growing. If you too would like to join, send us your application. We look forward to it.

Your tasks

Its core task is the verification of individual component decompositions in sub-components, using formal methods and tests. This includes the requirement analysis at the respective level of the component, the formulation of selected requirements using mathematical expressions as well as the formal evidence that these requirements are met with the help of the subcomponents. You perform all of these tasks in the context of product development at the highest safety level and in collaboration with the development team, and your results have direct access to our products.

The intended scope of work should be 20 hours per week in our premises.

Your qualifications

- Completed master's degree in computer science, electrical engineering or a similar course
- You have sound experience with formal methods, ideally based on SPARK / Ada
- You act in a team-oriented manner and enrich your environment with your creative and alert spirit
- You have very good spoken and written English skills
- A high degree of commitment, flexibility and independent action round off your profile.

We offer

- An innovative, international and open work environment with long-term and diverse perspectives with flat hierarchies
- A medium-sized company with start-up flair, where everyone knows everyone and with a culture of short distances to each other and a close cooperation
- Half-yearly feedback culture and annual salary rounds
- Flexible distribution of working hours (trust working hours) and home office as well as 30 vacation days per year

- Fresh fruits and vegetables, club mate, fair trade coffee, organic milk and many different types of tea are freely available
- A large lounge area with a nice kicker
- Bike leasing for all employees from the first working day
- Regular sporting company events and team events
- Cooperation with the Urban Sports Club
- Bonus payment for referring new employees
- Effective German or English courses.

Please send your complete resume (including a response to the specific job requirements and your salary expectations) to jobs@opensynergy.com.