EAS – Embedded Automotive Systems

Graz University of Technology, Graz – Institute of Technical Informatics

Modern embedded systems provide critical every-day services in applications as diverse as smart cities, smart production, or connected cars. As part of the IoT, they are part of a global super-infrastructure and enable the most disruptive technologies for the coming decades. The Embedded Automotive Systems Group around Prof. Marcel Baunach at TU Graz is dedicated to application-oriented basic research on such embedded computing platforms and thus offers

1 University Assistant position for PhD candidates (f/m/d)
in the field of Embedded Systems Design
from 1 March 2021, full time, at TU Graz, Campus Inffeldgasse, Graz, Austria.

The successful candidate shall perform application-oriented basic research and a limited amount of teaching in the fields of (1) *embedded operating systems* or (2) *embedded processor architectures*. The focus shall be on concepts for OS/MCU co-design, where e.g. dependability (real-time, security, safety), portability, modularity as well as maintainability and reconfiguration of hardware, logic, and software at runtime are relevant topics. The position is closely linked to and should complement other research collaborations and open source projects in this area.

Requirements: Completed Master or Diploma at university level with very good grades in Information/Computer/Software Engineering, Computer Science, Information Science, Telematics, Electrical Engineering, or related studies.

Your profile:

Candidates should have interest in several of the following areas:

- architecture of embedded operating systems or basic software
- model based software development and formal methods
- architecture of embedded processor architectures
- hardware design and reconfigurable logic

Candidates should show:

- very good study results
- very good proficiency in written and spoken English (German or the willingness to learn it is appreciated)
- high motivation, self-initiative, and readiness to work in an interdisciplinary and international team
- readiness to supervise courses in related studies
- willingness to do scientific research, publish research results, and support open-source software
- willingness to complete a dissertation at Graz University of Technology

Reference number: 4480/20/040
Deadline: 17 January 2021

Salary: €2,929 gross (14x/year) according to level B1 of the collective agreement for university employees.

Application: Please send your motivation letter, curriculum vitae, publication record, certificates of graduation, supporting documents and links regarding professional activities to **dekanat.etit@tugraz.at**, quoting the **reference number 4480/20/040 no later than 17 January 2021**.

Please ensure that your application makes direct reference to at least one or more topics listed above by describing your interests for future research. Briefly but clearly state in your letter of motivation how you would like to contribute your professional skills to the project and the working group. Generic letters of application will be rejected immediately.

TU Graz aims to increase the diversity in the research groups and therefore expressly invites all people with relevant qualifications to apply. Applicants must not to be discriminated in personnel selection procedures on the grounds of gender, ethnicity, religion, age, sexual orientation (anti-discrimination).

Contact in case of Questions: Prof. Dr. Marcel Baunach, Institute of Technical Informatics, baunach@tugraz.at

URL: https://www.tugraz.at/en/institutes/iti/jobs/open-positions/phd-embedded-automotive-systems/