



The department of **Power Electronics and Electrical Drives** at the faculty for Electrical Engineering, Computer Science and Mathematics is currently looking for a

**Research Assistant /
Doctoral Co-Worker**
(pay scale 13 TV-L)

Starting 2018, this full-time position is initially limited to 3 years due to external funding in accordance with the federal state Science Employment Law (WissZeitVG). The contract period corresponds to the approved project period - an extension is possible and intended. The research project is in close cooperation with our industrial partner (Daimler AG, Mercedes-Benz Cars) and the opportunity to acquire the doctoral degree is given.

Project description and responsibilities:

- Electrical and thermal modelling of drive systems for electric and hybrid vehicles
- Development of control and operation strategies for highly utilized drive systems under electrical and thermal constraints
- Focus: permanent magnet synchronous motors
- Management of the cooperation with the industrial partner
- Teaching duty totalling approx. 2 semester hours per week

Your qualifications:

- Very good university degree (master or similar) in the field of electrical engineering, mechatronics, physics or other relevant study programs
- Profound knowledge of electrical drive systems
- Profound knowledge of software-related engineering tools and programming languages (e.g. Matlab/Simulink, Mathematica, finite-element analysis, Python, C/C++...)
- Desirable: knowledge of system modelling and identification techniques
- Independent and team-oriented approach to work
- Very good command of written and spoken English or German, and the general willingness to learn German (language courses are provided)

We offer:

- Exciting, highly relevant research topics with direct transfer to practice
- Cooperative working environment that invites you to be creative
- Diverse teaching- and research-related training programs
- State-of-the-art laboratory infrastructure (e.g. automotive drive test benches)

Further information regarding our department you can find at:

<http://ei.uni-paderborn.de/en/lea/>

Applications from women are strongly encouraged and will be favoured in the case of equal qualification, competent and professional performance unless reasons specific to any individual candidate predominate (according to LGG state law). The position is full-time but part-time employment is possible in general. Qualified disabled people are also encouraged to apply (in the sense of the German social law SGB IX).

Please send your application, including cover letter, your CV, certificates and other accompanying documents via email until the **28/02/2018** to (**reference 3260**):

(Informal inquiries can be directed the following e-mail address, too.)

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