



The **Paderborn Center for Advanced Studies** opens a call for a

**PhD-position in Discrete Mathematics/Graph Theory**

(Salary according to 13 TV-L (75%))

in the PhD-program “Design of flexible work environments” (NRW-Forschungskolleg “Gestaltung von flexiblen Arbeitswelten”).

The initial contract will end on December 31, 2018 according to WissZeitVG. It can be extended by 3 ½ years subject to the extension of term of the PhD-program.

The research focus of the PhD-program is on the design of future work environments in the context of the digital transformation of the society. It connects fundamental research with applications, and is strongly interdisciplinary. Involved disciplines are Computer Science, Economics, Engineering, Mathematics, Pedagogic, Psychology and Sociology.

**Working Area:** Development of new graph theoretical methods for the analysis of socio-technical systems.

**Requirements:**

- Very good university degree (Master or equivalent) in Mathematics
- Profound knowledge in graph theory (in particular in graph colouring, clustering, signed graphs or (social) network analysis).

Ideally, you are mathematically talented and curious and interested in doing basic research with real-world applications. Responsibility and perseverance, creativity, and the strong willingness to cooperate with colleagues from other disciplines, in particular from Cognitronics, Psychology, and Sociology are extremely welcome. Good German language skills are an advantage.

**Starting date:** April 1, 2018 (the exact date is negotiable).

Paderborn University is an equal opportunity employer and certified to be a family friendly university. 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). Qualified disabled people are also encouraged to apply (in the sense of the German social law SGB IX).

Please send your application (including motivation letter, curriculum vitae, transcripts and certificates) with reference **3254** via e-mail as a single PDF to Prof. Dr. Eckhard Steffen (es@upb.de) before February 27, 2018.

**Universität Paderborn**  
**PACE – Paderborn Center for Advanced Studies**  
**Prof. Dr. Eckhard Steffen**  
**Fürstenallee 11**  
**33102 Paderborn**

