The Signal and System Theory Group (http://www.sst.upb.de) in the Department of Electrical Engineering and Information Technology at the University of Paderborn is seeking a

**Research Associate in Medical Image Processing** *(doctoral student/Postdoc)*

pay scale TV-L 13

This is a full-time position, initially limited to one year, with the possibility of further extensions. The position is available immediately and may be filled either by a doctoral student or a Postdoc.

This position offers you the chance of developing a revolutionary product in computer assisted surgery (CAS), together with one of the world's leading medical technology companies. CAS has been successfully used in brain and spine surgeries for many years. However, classical CAS systems have some disadvantages (in particular, changed operating room workflow and increased complexities) so that they are rarely used in trauma surgery, where efficiency and simplicity are of the essence. This is what we want to address. The product to be developed is revolutionary because it completely adapts to the surgeon and requires little to no interaction between surgeon and system. In order to achieve this, the system automatically processes X-ray images. For that we need sophisticated image processing algorithms, which you will develop.

Applicants must have received a Master's degree in electrical engineering or a related field (such as computer science or mathematics) from a recognized university. Previous experience in signal processing or medical image processing is an advantage, but not essential. Programming skills (e.g., MATLAB and C++) are required.

We offer a stimulating work environment in an international team and an attractive remuneration package according to pay scale TV-L EG 13 of the German public service, commensurate with experience and qualifications, see: http://www.lbv.nrw.de/beztab/entgelttabellen_2012/entgelttab.php

Applications from women are particularly welcome and, in case of equal qualifications and experience, will receive preferential treatment according to state law (LGG). Qualified disabled people (in the sense of the German social law SGB IX) are also encouraged to apply.

Please send your application (including a cover letter, your CV, list of publications, and contact details of at least two referees) to Prof. Peter Schreier, preferably by email: jobs@sst.upb.de. Alternatively, you may mail your application to the Signal and System Theory Group, EIM-E, University of Paderborn, Warburger Str. 100, 33098 Paderborn, Germany. Informal inquiries should be directed to the above email address.