The Department of Medical Statistics is looking for a:

**PhD Student (m/f/d)**

initially limited to three years, part-time | salary according to TV-L

About us
The University Medical Center Göttingen is a tertiary care center and offers great development potential. Its 7,900 employees work in over 65 departments and facilities to provide top-quality patient care, excellent research and modern teaching. Göttingen, “City of Science”, located near the center of Germany, the University Medical Center Göttingen is embedded in the city’s attractive network of scientific research facilities.

Within the Faculty of Medicine and at the ‘Göttingen campus’, the Department of Medical Statistics (Head: Prof. Dr. Tim Friede) offers a statistical advisory service and teaching in the fields of biometric and bioinformatic analysis of clinical and genomic data. Members of the Department also conduct research in the fields of adaptive designs of clinical trials, evidence synthesis, survival analysis and the statistical analysis of high-dimensional data. For the participation in a methodological project entitled “Resampling-based inference for causal effect estimates in time-to-event data”, which is funded by the German Research Foundation (DFG), we are looking for a PhD student.

The aim of this project is to investigate the applicability of different resampling schemes for deriving confidence intervals and time-simultaneous confidence bands for the average treatment effect (ATE) in causal analyses of survival data subject to competing risks. In
particular, the methods will be used to analyse different questions of interest concerning causal effects in registry data, e.g., the effect of treatment or socio-economic factors on cardiovascular endpoints such as serious bleeding, stroke or cardiac arrest. These data are usually right-censored and subject to competing risks.

Your tasks:

- Development of statistical methodologies in the field of observational studies in Epidemiology (survival analysis, causal inference)
- Analysis of real-world data in the context of a DZHK (German Centre for Cardiovascular Research) project group
- Implementation of the new methods in statistical software (preferably in R)
  Publication of the results and their presentation at scientific conferences

Your profile:

- Master degree in Statistics, Mathematics, Biometry or a related field
- Interest in the development and application of statistical methods in epidemiology
- Very good knowledge in statistical software packages (especially in R)
- High proficiency in English
- High level of motivation, ability to work in a team, proactive personality, scientific curiosity and willingness to learn

Our range:

- We offer diverse possibilities of internal and external professional training
- Health and sports promoted through excellent workplace health management
- Remuneration according to the collective agreement for the civil service of the TV-L including social benefits of the civil service including supplementary benefits
Women are especially encouraged to apply. Applicants with disabilities and equal qualifications will be given preferential treatment.

We look forward to receiving your application by July 12th, 2020:

University Medical Center Göttingen
Institut für Medizinische Statistik
Prof. Dr. Sarah Friedrich
Humboldttallee 32
37073 Göttingen
Tel.: 0551/39-4990
Fax: 0551/39-4995
E-Mail: sekretariat.ams@med.uni-goettingen.de
Web: http://www.ams.med.uni-goettingen.de/

Travel and application fees cannot be refunded or transferred.