



The Hector Research Institute of Education Sciences and Psychology is currently inviting applications for a:

**3-year doctoral position (m/f/d)
(65 %, E 13 TV-L¹)**

We are seeking excellent doctoral candidates who are motivated to work on the development of new research methods. Applicants may come from any of the following fields (or related fields): data science, statistics, psychology/psychometrics, econometrics, or education sciences.

The position will be funded for 3 years. The starting date for this position is as soon as possible, but we are committed to accommodating candidates' individual circumstances.

The position is embedded in the institute's main research field methodological research and development; the successful candidate will primarily be supervised by Assistant Professor Steffen Zitzmann. The Hector Research Institute is a nationally and internationally leading research center in education sciences and psychology. Our interdisciplinary team works in a well-equipped building close to the historic city center of Tübingen, Germany. Traditionally, research at the Hector Research Institute investigates determinants of successful teaching and learning processes using large scale assessments, longitudinal studies, and randomized controlled field trials. Our team will collaborate with the other research fields at the institute and support them by providing a diverse array of methods know-how, particularly in quantitative methods and statistics. More information can be found at www.hib.uni-tuebingen.de.

The successful candidate is expected to work on one or more of the following topics: (1) Causal inference and how causality can be established (or approached) by using advanced statistical methods in non-experimental designs, (2) longitudinal/time-series modelling, (3) Regularization and machine learning techniques to process big data, (4) Approaches to improve computational efficiency, (5) Development of R packages and/or Shiny Apps. Besides theoretical contributions and programming, the successful candidate is expected to use computer simulations to evaluate the developed methods.

The PhD candidates will benefit from unique opportunities, including:

- Close collaboration, mentoring, and professional development from a supervisory team
- Supportive environment to enable presentations at national and international conferences and publications in highly ranked journals to advance an (international) academic career
- Opportunities for interdisciplinary and international exchange programs (e.g., lab visits)
- Access to the LEAD Graduate School & Research Network (www.lead.uni-tuebingen.de)

¹ According to the general pay scale of German universities, the salary will be "E 13TV-L". This corresponds to a monthly salary of at least EUR 2,601,-** (65% position, gross pay, before tax). After taxes as a single (i.e. not married or in a civil partnership; no children), the monthly salary is at least EUR 1.703 (net salary after taxes and health insurance payments). Your income will increase annually if you remain employed. Information regarding cost of living in Tübingen: <https://tuebingenresearchcampus.com/tuebingen/>



Requirements

Graduates (and applicants about to graduate) with a master's degree from the above-mentioned fields with excellent grades and a strong interest in research from interdisciplinary perspectives are encouraged to apply. We especially give priority to candidates who have experience in developing and programming statistical procedures (preferably with R). Experience with publishing articles is a bonus.

For further inquiries about the position, please reach out to Assistant Professor Steffen Zitzmann (steffen.zitzmann@uni-tuebingen.de).

Applications including a (a) cover letter detailing your research experiences, interests, and methodological skills, (b) a CV, and (c) degree and other certificates with transcripts should be sent via email in **one single pdf-file** to verwaltung@hib.uni-tuebingen.de. The **initial deadline** is March 21. Disabled candidates will be given preference over other equally qualified applicants. The University seeks to raise the number of women in research and teaching and therefore urges qualified women to apply for these positions. Employment will be officially organized by the central university administration.