



With more than 6,500 employees in research, teaching and administration and its unique profile, TU Dortmund University shapes prospects for the future: The cooperation between engineering and natural sciences as well as social and cultural studies promotes both technological innovations and progress in knowledge and methodology. And it is not only the more than 33,400 students who benefit from that.

Open doctoral and postdoctoral positions in Research Training Group RTG 2624 (Ref.-Nr. w01-21)

In the **Research Training Group (RTG 2624) innovative biostatistical methods** for the analysis of high-dimensional data for **modelling and risk assessment in toxicology** are developed and applied. The three project areas are regression, prediction and integration (see picture above).

Doctoral researchers acquire knowledge in toxicology and develop statistical methods for pharmacological and environmental toxicology, optimally exploiting the flood of high-dimensional complex molecular data.

YOUR QUALIFICATION:

- A master's degree in statistics, biostatistics or in a related field (mathematics, bioinformatics, computer science or epidemiology with significant share of statistics) with short study time and very good grades
- Experience or strong interest in medical, biological or toxicological applications, proven, e.g., by a corresponding minor subject in the master study programme or by life-science oriented work as student or in master thesis
- High motivation to perform and scientific interest in topics of the RTG, demonstrated in a motivation letter and in the personal communication during application process.

WHAT WE OFFER:

- Embedding in a high-profile research environment
- Doctoral students will work in **interdisciplinary projects**, with joint supervision by leading international experts from both statistics and toxicology, at the institutions
 - **TU Dortmund University (lead university)**
 - **Heinrich-Heine-Universität Düsseldorf**
 - **IfAdo (Leibniz Research Centre for Working Environment and Human Factors), Dortmund**
 - **IUF (Leibniz Research Institute for Environmental Medicine), Düsseldorf**
- **Elaborate qualification programme** with courses in statistics, biostatistics, data science, bioinformatics and toxicology, in addition regular seminars, as well as talks and short courses from visiting researchers
- Wide range of qualification courses provided by the graduate centres at TU Dortmund and HHU Düsseldorf
- Improvement of science communication skills by presenting your research in seminars and conferences, with funding for visiting international conferences.

We explicitly note that applications of all sexes are welcome. Applications from women are favoured complying with legal regulation. We also underline that applications of severely disabled persons are welcome. Doctoral students will be employed for three years and will be paid according to public service's wage agreement (E13 TV-L, 100%). It is in principle suitable for part-time employment too. Applications will be accepted any time. The deadline for applications for the **8 doctoral researchers and 1 postdoc** (starting on the earliest on April 1st, 2021) is **08.02.2021**.

For information on research projects and on the job application process, please see the website of the RTG:

<https://www.statistik.tu-dortmund.de/grk2624.html>

Please send complete applications including a motivation letter that also prioritizes one or two of the research projects of the RTG to: **Prof. Dr. Jörg Rahnenführer, Fakultät Statistik, TU Dortmund, Vogelpothsweg 87, 44227 Dortmund**

For any questions, please contact Prof. Dr. Jörg Rahnenführer under the email address grk2624@statistik.tu-dortmund