**Jobs / Career at KIT**

# PhD Candidate / Applied Statistician / Biostatistician (f/m/d)

## Organizational unit

Institute of Statistics (STA)

## Job description

Infectious disease outbreaks pose a threat to public health and can have disruptive effects on societies. Disease surveillance gives rise to diverse and continuously updated data streams. To draw valid conclusions from these, specialized mathematical and statistical modeling tools are necessary.

The proposed project is focused on the development of new statistical methods to analyze infectious disease data in real time. Possible topics include nowcasting, short-term forecasting and the estimation of reproductive numbers. Besides statistical prediction methods, it is planned to work on expert and crowd forecasts of disease spread as well as evaluation methods for such forecasts.

The position will be part of a DFG Emmy Noether Junior Researcher Group ("Multi-Model Nowcasting and Short-Term Forecasting of Infectious Disease Spread"). For parts of the project, collaborations with partners in the United Kingdom and the United States are intended.

The position is suitable for PhD studies. The planned PhD supervisors are Principal Investigators in the Helmholtz Information and Data Science School for Health (https://www.hidss4health.de/), and we intend to associate doctoral candidates with this graduate school.

## This is what we offer

Become a member of staff of the only German University of Excellence that conducts largescale research on the national level. Work under excellent working conditions in an international environment and be active in research and academic education for our future. Benefit from specific training when starting your job and from a wide range of further qualification offers. Use our flexible working time models (flexitime, work from home), our sports and leisure offers, as well as our child and holiday care services. We also pay a share of EUR 25/month in the Job Ticket Baden-Württemberg. Enjoy a large variety of dishes, snacks, and beverages at our canteens.

## Starting date

As soon as feasible for the selected candidate.

## Personal qualification

Master's degree in statistics / biostatistics, mathematics or data science. A degree in a related quantitative discipline (e.g., epidemiology, economics) may be suitable in combination with excellent knowledge in statistics, proven by past coursework.

Strong interest in statistical modeling and software as well as applications in medicine and public health. Prior experience with survey methods is an asset.

Programming skills in R, documented by past projects (e.g., links to public code repositories). Knowledge of Python is an asset.

Fluency in written and spoken English; English is the main working language. Some knowledge of German is an asset, but no requirement.

Strong commitment to research ethics and teamwork.

Good communication skills.

## Salary

Salary category EG 13 TV-L, depending on the fulfillment of professional and personal requirements.

## Contract duration

limited for 3 years

## Application up to

April 20, 2025

## Contact person in line-management

For further information, please contact Jun.-Prof. Dr. Johannes Bracher (mailto:johannes.bracher@kit.edu).

## Application

Please submit a CV, transcript of records from your MSc studies and a short motivation letter (max. 1 page). Please upload all documents as a single PDF file named "application_<your last name>.pdf". If you have written a Master's thesis involving statistics feel free to submit it as a separate file (max. 10MB).

 **Please apply online using the button below for this vacancy number 1116/2025.**

**Vacancy number: 1116/2025**
We prefer to balance the number of employees (f/m/d). Therefore we kindly ask female applicants to apply for this job. Recognized severely disabled persons will be preferred if they are equally qualified.

## Contact

**Personnel Support is provided by:**
Personalservice (PSE) - Human Resources
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