

Job announcement

The Helmholtz Institute for RNA-based Infection Research (HIRI) in Würzburg is seeking a

Statistical Analyst (f/m/d)

to work in the research group “Integrative Informatics for Infection Biology” (IIIB) of Jun.-Prof. Lars Barquist for an initial period of 1 year. The goal is a long-term collaboration.

The Helmholtz Institute for RNA-based Infection Research (HIRI) was established in May 2017 as a joint venture between the Helmholtz Centre for Infection Research (HZI) in Braunschweig and the Julius Maximilian University of Würzburg (JMU). The HIRI is the first research institution worldwide to exclusively address the role of ribonucleic acids (RNA) in infection processes. Based on novel findings, innovative therapeutic approaches are developed in an integrated research approach and made clinically usable through the development of pharmaceutical forms of application. For more information, please visit www.helmholtz-hiri.de.

Your area of responsibility:

The research group develops new statistical, bioinformatic, and visualization approaches to enable the interpretation of complex post-genomic data. You will be part of the group and engage in developing new analyses and interpretation methods for functional genomics data relevant to infection biology [1]. You will work with cutting edge Bayesian statistical techniques to model the experimental and biological processes generating this data. This modeling process will be applied to answer key questions about the roles of RNA-binding proteins in regulating the behavior of bacterial pathogens during infection [2,3], using a suite of high-throughput experimental techniques to address the effects of these proteins on gene expression [4], pathogen fitness [5], and RNA stability.

Further reading:

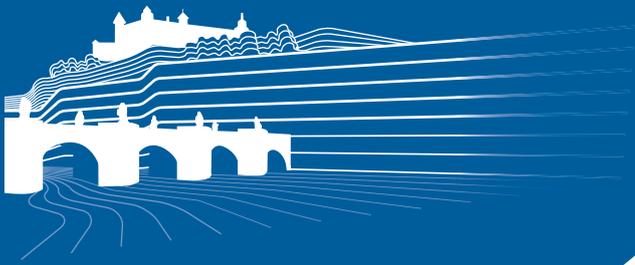
- [1] Barquist and Vogel (2015) *Ann Rev Genet* 49:367-394.
- [2] Holmqvist et al. (2018) *Mol. Cell* 5(7):971-982.
- [3] Michaux et al. (2017) *PNAS* 114(26):6824-6829.
- [4] Westermann et al. (2016) *Nature* 529:496-501.
- [5] Barquist et al. (2016) *Bioinformatics* 32(7):1109-1111.

Your profile:

- Bachelor’s or Master’s Degree/Diploma in computer science, bioinformatics, statistics, physics, or a related field
- Experience with at least one mathematical or statistical programming language (e.g. R)
- Equivalent of advanced undergraduate knowledge of probability and statistics
- Strong written and spoken English language communication skills

Desired (non-essential) background:

- Previous experience working with large-scale biological data sets, particularly RNA-seq and derived techniques
- Experience with microbiology, RNA biology, or infection biology



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Starting date:

You will work in the dynamic and international research environment of the HIRI in Würzburg (<https://www.helmholtz-hiri.de>), which is part of the Helmholtz Centre for Infection Research in Braunschweig (<https://www.helmholtz-hzi.de/en/>). If desired, you could also develop and pursue a PhD project in the IIIB group.

We offer a compensation according to TVöD and varied activities in an international team. You will be hired through the Helmholtz Center for Infection Research GmbH in Braunschweig, while the place of employment is Würzburg.

Disabled applicants will be preferred, given they possess the equal professional qualifications.

Equal opportunities are part of our personnel policy.

If you have any questions, please contact Jun.-Prof. Lars Barquist via e-mail: lars.barquist@helmholtz-hiri.de.

We look forward to receiving your detailed application (Cover letter, CV **without** picture, job references and certificates). Please send the documents summarized in one (1) pdf document by e-mail to lars.barquist@helmholtz-hiri.de.