The University of Bonn is an international research university offering a broad range of subjects. With a 200-year history, some 33,000 students, more than 6,000 employees and an outstanding reputation in Germany and abroad, the University of Bonn is one of the leading universities in Germany and has been awarded the status of a University of Excellence.

The Chair of Computational Life Sciences of the International Research Unit Mathematics and Life Sciences is looking to fill the following permanent position with effect from February 1, 2024:

**Scientific software developer at the interface of mathematics and life sciences (full time)**

The Computational Life Sciences group develops and applies novel mathematical and computational approaches as well as software tools for data analysis and modeling. The spectrum of applications includes oncology, immunology, and epidemiology. We are intensively collaborating with world-leading experts in the respective fields as well as in mathematics, and we are part of the excellence clusters ImmunoSensation2 and Hausdorff Center for Mathematics at the University of Bonn. Our group has developed several open-source software packages and repositories. We are committed to the FAIR principles and make all codes freely available.

Your tasks:
- Development, documentation, optimization, and maintenance of scientific open-source software, in particular for efficient numerical simulation of differential equations and for parameter estimation (AMICI, pypesto)
- Engaging with other developers to foster interoperability of relevant tools
- Establishing and maintaining best practices for software development within the research group, supervising software development efforts
- Expansion and maintenance of the in-house computing cluster

Your profile:
- PhD degree in computational biology, computer science, mathematics, physics, or related fields
- Profound experience with application development in Python, and ideally C++
- Experience in at least some of the following fields: mathematical modelling, numerical optimization, machine learning, community standards in systems biology, and high-performance computing
- Experience in software development and maintenance, distributed version control, build systems, testing frameworks, continuous integration, static code analysis, documentation frameworks, shell scripting, basics of linux system administration
- Proficiency in written and spoken English
- Interest in medical and life sciences topics
- Experience in scientific writing, including grant writing (e.g., for access to HPC resources)

We offer:
- A varied, challenging job with one of the largest employers in the region, job security and loyalty to the location
- An international, stimulating, well-equipped working environment with an open and constructive atmosphere and the necessary infrastructure for high-quality research
- Participation in exciting scientific projects and cooperation with internationally renowned scientists
- Opportunity to attend relevant conferences and workshops
- Occupational pension (VBL)
- Many options available for university sports
- Easy access to the public transport system due to the central location in Bonn as well as the possibility to use inexpensive parking facilities
- Flexible working hours and the ability to work from home
- Remuneration in accordance with TV-L pay grade 14

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. The University of Bonn seeks to increase female representation in staffing areas where women are underrepresented and provide special career support. Accordingly, the University of Bonn expressly encourages qualified women to apply. Applications will be handled in accordance with the NRW State Gender Equality Act. Applications from qualified candidates with a certified severe disability or from those of equal status are especially welcome.

If you are interested in this position, please send your complete application by email to iru-mls@uni-bonn.de by December, 21, 2023, quoting reference 32.23.331. For technical reasons, applications may only be submitted as a single PDF file. Please do not hesitate to contact Prof. Jan Hasenauer (phone +49 228 73-69444, Frau Fricke) if you need any more information.