

Ph.D. Student in Artificial Intelligence for the Life Sciences and Health

We are looking for a motivated doctoral student to join the [Department of Life Science Informatics and Data Science](#) at the University of Bonn and the [Lamarr Institute for Machine Learning and Artificial Intelligence](#).

The Lamarr Institute is dedicated to advancing both the theory and application of high-performance, trustworthy, and resource-efficient machine learning and artificial intelligence. The Institute comprises several interconnected research areas. The Department of Life Science Informatics and Data Science is a part of the [“Life Sciences & Health” Interdisciplinary Research Area](#), chaired by Prof. Dr. Jürgen Bajorath, which combines machine learning, explainable artificial intelligence, and data science with the life sciences. Its primary application domains include drug discovery and design, medical research, and healthcare.

The Lamarr Institute collaborates with leading international partners in the area of Life Sciences and Health including, among others, the University Hospital Bonn (UKB), the Tübingen Center for Academic Drug Discovery, and the Nara Institute of Science and Technology, Japan.

Research Topics

The candidate should be interested in one or more of the following research areas:

- AI methods for drug design
- Explainable artificial intelligence
- Molecular diffusion models
- Agentic AI

Qualification

- M.Sc. in Computer Science, Artificial Intelligence, Cheminformatics, Bioinformatics, or related fields
- Advanced programming skills (Python knowledge is essential)
- Experience with deep learning frameworks (such as PyTorch)

- Candidates with a background in biology or chemistry and the essential computational skills are encouraged to apply
- Fluent command of spoken and written English

Tasks

- Conducting research in a multidisciplinary environment at a German University of Excellence
- Participation in teaching activities in the international M.Sc. program in Life Science Informatics (2 hours per week during lecture periods)
- Get access to high-end computing facilities (GPU clusters and workstations)

Position

- **Research Assistant:** TV-L E13 50%
- **Duration:** 3 years (extendable)
- **Start date:** flexible; August 01, 2026, at the earliest
- **Location:** Bonn, Germany

Application

Qualified and interested applicants are requested to apply by e-mail to Dr. Andrea Mastropietro (mastropietro@bit.uni-bonn.de) and Dr. Martin Vogt (martin.vogt@bit.uni-bonn.de) with the following:

- Subject: **APPLICATION PhD Research Assistant - [FIRST_NAME LAST_NAME]**
- CV
- Cover/motivation letter
- Preferred start date/period

Review of applications will begin immediately on June 15, 2026.

We value and actively promote diversity and welcome all applications – regardless of age, gender, nationality, or ethnic background. Applicants with severe disabilities will be given preference in the case of equal qualifications.