

About AITHYRA

AITHYRA is a pioneering biomedical research institute in Vienna, Austria, where artificial intelligence meets life sciences to drive the next biological revolution. AITHYRA is an institute of the Austrian Academy of Sciences (ÖAW) and was established with generous funding from the not-for-profit Boehringer Ingelheim Foundation Mainz. We are building a world-class collaborative environment that brings together AI specialists, experimental scientists, and engineers to push the boundaries of biomedical innovation and improve human health.

Join us in shaping the future of biomedical AI—where science meets innovation, and where magic happens.

Postdoctoral Fellow or Bioinformatics Scientist, Nomburg Lab (all genders)

The Nomburg Lab at AITHYRA is seeking a motivated **Postdoctoral Fellow** or **Bioinformatics Scientist** to join our interdisciplinary team that combines AI, structural biology, and high-throughput molecular virology to decode the virus-host conflict. The Nomburg Lab pairs computational and experimental methods, with a special emphasis on interactions between viruses and cellular immunity.

The Nomburg Lab uses protein structure prediction and comparison to study viral immune antagonists (see Nomburg et al., Nature 2024 https://doi.org/10.1038/s41586-024-07809-y). We recently released the first manuscript from the Nomburg lab (bioRxiv https://doi.org/10.64898/2026.07.21.739742) where

we map the structural landscape of the viral proteome and show that conserved folds are recurrently used by pathogens for immune antagonism.

We are looking for a scientist to apply protein structure-based methods, including structural predictions, comparisons, and phylogenetics, to study the virus-host conflict. This position will be between 80% and 100% computational, with the possibility for experimental work should there be interest. At the Nomburg Lab, we are dedicated to the success of lab members. The Nomburg Lab is collegial and highly collaborative, with ongoing computational and experimental work supplemented by a state-of-the-art AI-guided robotics facility. This project will be implemented in close collaboration with other lab members and will be tailored to fit the candidate's interests and wishes for technical development. Lab culture is very important to us, so we strive to be inclusive, friendly, and share culture and science.

Start date: flexible
Contract: full-time
Positions available: 1

Your Tasks

You have a keen interest in interdisciplinary research and solving real-world scientific and biomedical problems?

We are looking for scientists with a do-er mindset to think outside the box, to learn fast, collaborate effectively, iterate quickly, and work at the interface of both experimental and computational design.

Your Profile

- A Ph.D. in bioinformatics, biology, virology, computer science, or a related field.
- Substantial experience in python, R, and/or bash.
- Proven experience leading computational biology projects.
- A strong publication record, including one or more first author publications
- Experience using high performance computing systems
- Experience with the following are welcome, but not required:
    - Protein structure-based bioinformatics
    - Phylogenetics
    - Systems-level questions relating to viral or cellular proteins at the virus-host interface
- For applicants for the bioinformatics scientist position:

- At least one year of bioinformatics experience post-Ph.D.

What We Offer

- A dynamic and collaborative research environment that bridges AI and the life sciences
- Extensive collaborative opportunities with other Principal Investigators at AITHYRA, bridging expertise in machine learning, computational biology, virology, and chemical biology.
- Access to high-performance compute infrastructure and expert collaborators.
- Access to state-of-the-art experimental laboratories and AI-driven robotics infrastructure.
- Close mentorship, training opportunities, and career development support.
- Diverse social, cultural, and sports activities organized by the institute.
- Excellent benefits and health services.
- A gross annual salary of 70.200 EUR (for postdoctoral fellows) or minimum gross annual salary 72.000 EUR (for bioinformatics scientists).
- Funding for 2-5 years with support to apply for fellowships and grants.
- Relocation allowance, and fully-paid business apartment for the first 3 months.
- Workweek: 40 hours. Core hours: Monday to Thursday 09:00-15:00, Friday 09:00-13:00.
- Up to one home office day per week.

Ready to contribute to the next wave of scientific discovery?

Application Process

Please submit your application until: 15.09.2026
We will be in touch afterward.

- **CV** including a full publication list and a github link including representative code.
- **Cover letter** that explains your prior research background, fit for the position, and interest in the Nomburg lab.
- **Contact details of at least two professional references.**

Should you have any questions, please contact the AITHYRA HR Team at recruitment@aithyra.ac.at

We are a curiosity-driven, globally minded organization committed to building an inclusive and flexible workplace. At AITHYRA, we believe diverse perspectives strengthen collaboration and spark innovation. We welcome applicants from all backgrounds, cultures, and experiences to help us create teams that reflect the communities our science serves. Your unique contribution matters here - come realize your full potential with us.

Apply now