

# AITHYRA

## 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. AITHYRA's mission is to transform the way life sciences are conducted using AI to drive the biological revolution in the next decade, with the ultimate goal of improving human health.

**Join the best of the academic, corporate, and start-up world, and support AITHYRA, the Research Institute for Biomedical Artificial Intelligence in Vienna.**

**AITHYRA, the place where magic happens!**

## AI-Native Software Engineer (all genders)

We are seeking a seeking an outstanding **AI-Native Software Engineer (all genders)** who will be joining a world-class team and help build and automate the internal software and operations platform that keeps AITHYRA running — with a clear focus on AI-enabling our administrative and business workflows. When capacity allows, you will also contribute to scientific tooling that supports our researchers. At AITHYRA, we have embraced AI-assisted development as our standard way of building software — using tools like OpenCode, Claude Code, Codex, and other agentic coding environments. We are looking for an experienced software developer who is ready to take the next step: becoming an AI-augmented engineer who designs, orchestrates, and ships applications at a pace only possible when humans and AI agents work together.

As our AI-Native Software Engineer, your primary mission is to automate and AI-enable AITHYRA's internal operations - finance, HR, procurement, document handling, reporting, IT onboarding, and the countless administrative workflows that a fast-growing research institute depends on. You will design, build, and orchestrate AI-agent-driven pipelines that eliminate repetitive manual work and let our teams focus on science.

Reporting to Stephan Stadlbauer, Head of Scientific Computing, you will translate operational needs into containerized, self-contained services built with heavy AI-agent assistance. Supporting scientific projects and researcher-facing tools is a secondary focus, addressed when administrative automation priorities allow. You don't need to be an AI/ML researcher — but you must be fluent in modern software engineering and genuinely excited about leveraging AI coding agents to multiply your output.

**Start date:** flexible

**Contract:** full-time, 40/h week

**Positions available:** 1

## Your Tasks

- **Develop internal applications** using AI-assisted development workflows (OpenCode, Claude Code, Codex, and similar agentic tools) - embracing the emerging discipline of AI-augmented engineering.
- **Automate business processes** end-to-end, designing AI agent pipelines that enable autonomous operations wherever possible - from document workflows to data processing to administrative tasks.
- **Build and maintain containerized services:** design multi-container Docker (Compose) stacks that are self-contained, talk via well-defined APIs (REST, MCP, GraphQL), and authenticate via OAuth.
- **Create scientific interfaces and visualizations:** develop user-friendly web interfaces to access internal databases, explore datasets, and display visualizations for researchers.
- **Support other teams** with their software infrastructure needs - for example, helping AI robotics teams deploy, manage, and maintain their application stacks.
- **Implement and evolve the deployment infrastructure:** maintain current Docker Compose-based deployments, and help evaluate and introduce container orchestration (e.g., Kubernetes) for services that require high availability in the future.
- **Write clean, well-documented, testable code** - primarily in Python - while leveraging AI tools to accelerate development without sacrificing quality or maintainability.
- **Stay at the frontier:** continuously evaluate new AI coding tools, agent frameworks, and automation patterns, and bring best practices back to the team.

## Your Profile

- Education in Computer Science, Software Engineering, or a related field (or equivalent practical experience).
- Solid professional experience as a software developer.
- Hands-on experience with or genuine enthusiasm for AI-assisted development tools (e.g., Claude Code, OpenCode, GitHub Copilot, Cursor, Codex).
- Strong working knowledge of containerization - you build, ship, and debug Docker and Docker Compose stacks confidently.
- Experience designing and consuming APIs (REST, GraphQL) and implementing authentication flows (OAuth/OIDC/SAML).
- Familiarity with relational and/or document databases and the ability to build interfaces and visualizations on top of them.
- A genuine passion for automation - you instinctively look for ways to eliminate repetitive work through scripting, agents, or workflow tools.
- Excellent problem-solving skills and a proactive attitude towards tackling diverse technical challenges in a fast-paced environment.
- A strong desire to evolve into an AI-augmented engineer - someone who orchestrates AI agents, designs agentic workflows, and continuously pushes the boundary of what a single developer can deliver.
- Ability to communicate effectively and collaborate with technical and research teams.

**Desired Skills:**

- Experience with container orchestration (Kubernetes, Docker Swarm) for high-availability deployments.
- Familiarity with the Model Context Protocol (MCP) or similar agent-to-service communication standards.
- Experience building data visualizations or dashboards (e.g., Streamlit, Dash, Grafana, or custom web UIs).
- Knowledge of CI/CD pipelines, Git-based workflows, and infrastructure-as-code practices.
- Exposure to front-end frameworks (React, Vue, or similar) for building internal web applications.
- Experience working with research scientists or in an academic/research environment.
- Familiarity with AI/ML concepts - not to train models, but to understand what your scientist colleagues are doing and what they need.

## What We Offer

- A competitive salary (minimum gross annual salary of EUR 58000)
- Support for your wellbeing, including access to a company doctor
- Fresh fruits, sweet treats, and free coffee & tea are available every day
- Flexible working arrangements, with the option for one home office day per week
- Core hours: Monday-Thursday 09:00-15:00, Friday 09:00-13:00
- Meal allowance to make your day a little easier
- A welcoming community with diverse social and cultural activities
- Relocation support to help you settle in comfortably if you're moving to join us

**Ready to multiply your impact through the power of AI agents?**

## Application Process

Please submit your application until: 18.05.2026

We will be in touch afterward.

- **CV** highlighting your relevant experience and achievements
- **Cover letter** outlining your interest in the position and how your background aligns with the job requirements
- **Contact details of at least two professional references**
- **Completed application questionnaire**

Should you have any questions, please contact the AITHYRA HR Team at [recruitment@aithyra.ac.at](mailto: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