

## Full Stack Developer / Research Software Engineer (f/m/x)

The *Ludwig Boltzmann Institute for Digital Health and Prevention* (LBI-DHP; <https://dhp.lbg.ac.at/>) researches novel technology-assisted interventions for supporting sustainable health behavior change.

In close collaboration with our partners at the *Paris Lodron University Salzburg* (PLUS; Faculty of Digital and Analytical Sciences and Centre for Human-Computer Interaction), the *University of Applied Sciences* (FH Salzburg), *Salzburg Research*, the *Austrian Institute of Technology* (AIT), the *Paracelsus Medical University* (PMU) and the *University Hospital of Salzburg* (SALK), **the LBI-DHP follows an impact-oriented research agenda**. That aim is pursued by **bringing together interdisciplinary expertise** and approaches both within the institute, as well as through the wider partner network and stakeholder groups. **Novel digital health systems and interventions are developed** and evaluated at levels ranging **from exploratory prototypes to scalable publicly available platforms** and clinical studies (see e.g. <https://dhp.lbg.ac.at/more/> and <https://dhp.lbg.ac.at/aktivplan/>).

***Are you enthusiastic about creating and shaping novel digital health solutions?***

### Tasks

- Extension and development of digital health applications / interventions
- Extension and development of a user-friendly mHealth platform (web & mobile + backend)
- Maintenance of software services and service infrastructure
- Supporting the integration of (and gaining working experience with) machine learning and artificial intelligence systems into digital health interventions (AI / ML engineering)

### Qualifications

- Higher education degree in computer science, software development, multimedia technologies, and comparable degree programs, or corresponding professional experience
- Expertise in modern web technologies for frontend and backend development (e.g. JavaScript, React, Python, Java, .NET/MAUI, etc. as well as HTML and CSS scripting)
- Expertise or motivation to acquire expertise in container technology (Docker, OpenShift, Kubernetes), databases (MySQL, Postgres, InfluxDB, Firebase, RethinkDB, MongoDB), event-driven / streaming architectures and microservices (Kafka/Confluent), continuous integration, and build tools (e.g. gradle), authentication / authorization standards (KeyCloak)
- Follow modern and high-quality development standards (git; automated tests, etc.)
- Beneficial: experience in native mobile development (Android and/or iOS)
- Beneficial: experience in responsible development using AI coding-support
- Great problem-solving skills
- Communication and team-working skills
- Excitement about challenging iterative and user-centered research software development, assuming a broad range of responsibilities
- Good English language skills; German skills welcome but not required

### Details:

- Work hours: 40 hours per week (part-time work and home office can be discussed)
- Location: Ludwig Boltzmann Institute for Digital Health and Prevention at the University Hospital of Salzburg (SALK), Lindhofstrasse 22, 5020 Salzburg, Austria
- Earliest start: As soon as possible
- Duration: 12 months up to 20 months
- Salary: Starting from € 44,208 per year before tax (€ 3,158.71.- per month \* 12 + 2 months)

*We make many of our projects openly available online (can serve as references) and support career development of software developers with the possibility of attending events, workshops, and more...*

For informal queries please feel encouraged to contact Dr.-Ing. Jan Smeddinck: [jan.smeddinck@dhp.lbg.ac.at](mailto:jan.smeddinck@dhp.lbg.ac.at) or +43 57 255 82711.

Please send your application including CV, as well as optionally a portfolio of your development experience, and/or other work and relevant project experiences in any format (PDF, GitHub, website, etc., links to common trusted cloud storage providers are fine for larger file sizes) to [office@dhp.lbg.ac.at](mailto:office@dhp.lbg.ac.at). (Application documents can optionally be encrypted using the PGP key at: <https://drive.google.com/file/d/1kKxtvtURRHqfq8seTTVxV1hzScDgQ6Yf>.)



We offer you an interesting position in one of the largest private research organizations in Austria. The *Ludwig Boltzmann Institutes* are part of the not-for-profit *Ludwig Boltzmann Gesellschaft* and is specifically targeting novel research topics in Austria aiming for internationally recognized research excellence. Together with academic and implementing partners, the LBG is currently running 16 institutes and develops and tests new forms of collaboration between science and non-scientific actors such as companies, the public sector and civil society. The LBG aims to identify and swiftly tackle relevant challenges in society to which research can contribute at an early stage. The *Ludwig Boltzmann Gesellschaft* employs more than 500 people. With us, you can expect a dynamic environment, appreciative teamwork, as well as further training and personal development opportunities.

The LBI-DHP is a closely collaborating group of ~40 highly motivated researchers, technical and administrative staff. The institute is located at the *University Hospital of Salzburg* near the heart of the historic city center. Salzburg is frequently recognized as one of the most desirable places for quality of life in Austria and beyond. It offers excellent public infrastructure, family-friendly lifestyle, world-class cultural events, and is also in close vicinity to a wide array of alpine sports and recreation opportunities.



*The Ludwig Boltzmann Institute for Digital Health and Prevention partner network:*

