

Seeking a Postdoc (f/m/x) in Data Science & Digital Health Systems Engineering

The *Ludwig Boltzmann Institute for Digital Health and Prevention* (LBI-DHP; <https://dhp.lbg.ac.at/>) researches novel technology-assisted interventions to provide long term, sustainable, efficient and effective support to patients for health-promoting behavior change.

In close collaboration with our partners at the *Paris Lodron University Salzburg* (PLUS; Faculty of Mathematics and Centre for Human-Computer Interaction), the *University of Applied Sciences* (FH Salzburg), *Salzburg Research*, the *Austrian Institute of Technology*, 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 research group, as well as through the partner network that also includes a broad range of local stakeholder organizations. Novel digital health systems and interventions are developed and evaluated at levels ranging from exploratory prototypes to scalable publicly available platforms and clinical outcome studies.

You are enthusiastic to create and shape novel digital health solutions?

Tasks

- Design studies and accompany the implementation of digital health systems with data analytics strategies for a long-term integration of multiple data-streams, including continuous sensor data
- Conduct research on adaptivity and personalization of mobile technologies for health
- Conduct research on technology-assisted behavior change and decision support systems
- Contribute to the development of a user-friendly mHealth platform, esp. data processing and analytics
- Collaborate in clinical studies of novel technology-assisted interventions
- Work collaboratively in a highly interdisciplinary and international team
- Lead on – and contribute to – collaborative, interdisciplinary publications
- Co-supervise PhD-candidates, master students and interns

Qualifications

- PhD and portfolio of internationally recognized (English language) publications in the areas of (applied) data science and/or (digital health) multi-device systems engineering
- Expertise in software development, ideally backend and/or middleware, as well as experience with real-time data processing and analytics at scale
- Expertise in methods and conduct of system evaluations and studies
- Experience in data analytics with longitudinal / timeseries data
- Experience with machine learning for personalization and/or adaptive systems and/or user modeling
- Independent work style and high self-motivation
- Interest in complex and challenging tasks and topics
- Excellent problem-solving skills, flexibility, resilience, and teamwork ability
- Excellent conduct of the English language; German skills welcome but not required

Details:

- Work hours: 40 hours per week (lower percentage can be subject to negotiation)
- Location: Ludwig Boltzmann Institute for Digital Health and Prevention at the University Hospital of Salzburg (SALK), Lindhofstrasse 22, 5020 Salzburg, Austria
- Earliest start: 2021 December 01; post can be filled as soon as a viable candidate is found
- Duration: 48 months (4 years)
- Salary: € 55.244 per year before tax (€ 3.946.- per month before tax * 14 months)

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

Please send your application including CV, three selected publications, as well as optionally a portfolio of your research, implementation, and/or other work and 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 until 2021 December 07. (Application documents can optionally be encrypted using the PGP key at: <https://drive.google.com/file/d/1kKxtvtURRHqf8seTTVxV1hzScDgQ6Yf>.)



We offer you an interesting position in one of the largest private research organizations in Austria. The *Ludwig Boltzmann Institutes* are part of the *Ludwig Boltzmann Gesellschaft*, a not-for-profit research institution with a thematic focus on medicine, life sciences and the humanities, social sciences and cultural sciences, and is specifically targeting new research topics in Austria. Together with academic and implementing partners, the LBG is currently running 21 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 15 to 20 highly motivated researchers, as well as technical and administrative staff. The research 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. The city 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:

