

OPEN POSITION FOR A PHD STUDENT (M/F/D) IN THE FIELD OF "HEALTH INFORMATICS"

The Ludwig Boltzmann Institute for Digital Health and Prevention (<https://dhp.lbg.ac.at>) is a research institute examining digital technologies and interventions in sustaining behavioral changes for a more healthy lifestyle. We are looking for a motivated PhD student (m/f/d) in "Health Informatics" with an immediate start date (**in April 2021**).

You will be a member of the DH-Convener project team for integrating the patient-generated data by digital health apps with ELGA. This project was the winner of the Nexus Digital Health Innovation Challenge, under the use case dealing with future health data organization. This national competition was organized by the Federal Ministry for Climate Protection, Environment, Energy, Mobility, Innovation, and Technology (BMK) in May 2020.

To realize the DH-Convener concept, LBI-DHP will collaborate with the Medical University Vienna (MedUni) through the H2O project (<https://www.imi.europa.eu/projects-results/project-factsheets/h2o>) to hire a PhD student for roadmapping the required interoperability framework and corresponding eHealth infrastructure. This roadmap will support the national Patient-Generated Health Data (PGHD) initiatives in Austria, starting with creating synergy between the DH-Convener (LBI-DHP) and H2O (MedUni) projects.

MAIN TASKS:

- Conducting research in the field of healthcare standards and interoperability
- Participation in roadmapping the required interoperability framework and corresponding eHealth infrastructure for the DH-Convener and H2O projects
- Creating the required Enterprise Architecture (EA) model for incorporating PGHD into eHealth infrastructure
- Cooperating with the project interdisciplinary and international team in delivering the project according to the agreed timeline and implementation roadmap
- Publishing the research results in international journals and conferences
- Writing the PhD dissertation (in English)

DESIRED SKILLS AND EXPERIENCE

- A diploma or master university degree in health informatics, computer science, information technology, or a related discipline is expected.
- High interest in solving scientific problems, and motivation for conducting goal-oriented research.
- Ability to develop methods, concepts, models, and roadmaps as well as their realization and evaluation.

- Knowledge and experience in health informatics standards and interoperability frameworks: HL7 Clinical Document Architecture (CDA) and Fast Healthcare Interoperability Resources (FHIR), Observational Medical Outcomes Partnership (OMOP) Common Data Model, Integrating the Healthcare Enterprise (IHE), continua guidelines for personal health systems interoperability.
- Very good programming skills.
- Very good communication and team-working skills.
- Good knowledge of the English language (oral and written).

OFFER AND SALARY

- Number of hours: 30 hours per week
- Place of employment: Ludwig Boltzmann Institute for Digital Health and Prevention at the University Hospital Salzburg
- Academic university: Medical University Vienna
- Supervisor of PhD thesis: Univ.-Prof. Dipl.-Ing. Dr. Georg Duftschmid (<https://cemsis.meduniwien.ac.at/user/duftschmid-georg/>)
- Start: as soon as possible (April 2021)
- Time limit: 36 months
- Salary: **€ 2,237** gross per month

Application documents (cover letter, Curriculum Vitae, and contact data of 2 references) should be sent until **March 20 2021** to office@dhp.lbg.ac.at. Please format the email subject of your application as follows: **PhD position in Health Informatics Roadmap: Your name.**

We offer an exciting job in one of the largest private research organizations in Austria. The Ludwig Boltzmann Gesellschaft (LBG) is a 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 19 institutes and develops and tests new forms of collaboration between science and non-scientific actors such as companies, the public sector and civil society. Socially relevant challenges, to which research can contribute, are to be recognized at an early stage and taken up. In 2016, the LBG Career Center, which is supporting 200 pre and postdocs, has been set up. In addition, the LBG Open Innovation in Science Center (LBG OIS Center), which is revealing the potential of open innovation to science, was launched. The Ludwig Boltzmann Gesellschaft employs 550 people.

With us, you can expect a dynamic environment, appreciative togetherness, and further training and personal development opportunities.