



**HeartBeat.bio AG (HBB)** has built a highly scalable **human organoid and AI-supported drug discovery platform** for developing **first-in-class drugs for heart failure faster, less costly and with a higher probability of success in clinical trials**. Our core technology is based on the **worldwide first self-organizing heart-chamber-in-a-dish models (Cardioids)** which resemble the human physiology of the different compartments of the heart while allowing for the cost-efficient and large-scale *in vitro* analysis of crucial parameters associated with cardiac diseases. We believe our **Cardioid Drug Discovery Platform and our animal-free, human-centric approach** have the potential to **revolutionize the current cardiac drug discovery paradigm**.

We work in a dynamic and collaborative environment at the **Vienna BioCenter (VBC)** and are looking for highly motivated candidates who share our excitement for human (cardiac) organoids and making a difference in the lives of heart failure patients. Currently, we are seeking a **Data Scientist** with a strong interest in database management and machine learning. Since we are a start-up with an agile working environment, we expect the candidate to be flexible and potentially work in multiple teams with changing responsibilities and tasks.

Responsibilities for data scientist position include:

1. Develop, test, and optimize algorithms to analyze and curate readout data (calcium transients, contractility, and MEA) into biologically relevant metrics for scientists.
2. Generate machine learning and/or deep learning algorithms to classify populations of Cardioids based on image based and functional readouts.
3. Ensure quality and accuracy of data by anomaly detections and outlier removal methodologies.
4. Apply data mining techniques, statistical analysis, and build predictive models to discover the information hidden in vast amounts of data.
5. Set up database containing link to raw data, analyzed parameters along with all its analysis in a user interactable format.
6. Work with different types of publicly or privately available datasets starting from the collection process through cleaning and analyzing the data and finally presenting it in a proper format.

Candidates should have:

- An academic degree (MSc or higher) in physics, bioinformatics, computer sciences or related fields.
- Have database management and data analysis skills at scale.
- Proficiency in Python and experience in MATLAB is desired.
- Experience in implementing automated workflows or large-scale data analysis is beneficial (Knime, Pipeline Pilot)
- Knowledge of statistics and quantitative analysis routines and visualizations (Dashboard, Spotfire).

Excellent English is required since we are working in an international scientific environment. German language skills are a plus but not mandatory. Candidates should enjoy working in a high-performance team.

The annual gross salary is € 50,000 or higher depending on qualification and experience for full-time employment (40h/week). If you're interested in joining our exciting start-up company, please send your CV, letter of motivation and, if possible, the names and contact details of two references to Dr. Lokesh Pimpale ([careers@heartbeat.bio](mailto:careers@heartbeat.bio)). Candidates will be evaluated on a rolling basis.

We look forward to hearing from you.

**HeartBeat.bio AG**

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