

## Statistical Programmer/Data Scientist (part-time/full-time) on-site – short notice start available

Division of Rheumatology, Medical University of Vienna, Austria  
Währinger Gürtel 18-20, 1090 Vienna, Austria

We, the Division of Rheumatology at the Medical University of Vienna are currently looking to expand our team with a **STATISTICAL PROGRAMMER** or **DATA SCIENTIST** with educational background in data science, computer science, programming or/and statistics and extensive experience in handling data. This role focuses on the development of secure, scalable, and federated machine learning algorithms for clinical research in parallel to data management, supporting our mission to advance personalized medicine through data-driven approaches. The candidate will be part of a cross-disciplinary team engaged in clinical research, bioinformatics, and applied data science to understand and predict treatment outcomes for rheumatic and musculoskeletal diseases.

### About the division

The Division of Rheumatology at the Medical University of Vienna is recognized as a **EULAR Centre of Excellence** and a global leader in rheumatology research. We conduct a broad spectrum of research—basic, clinical, and translational—to explore inflammatory rheumatic conditions, develop treatment strategies, and predict treatment responses. Our research involves linking clinical, genetic, molecular, and biological data to patient-level information, drawn from longitudinal clinical studies and large-scale randomized clinical trials.

### What we offer

We offer a position with the opportunity to work in a dynamic team consisting of highly motivated people with interdisciplinary backgrounds including epidemiologists, clinical, statistical and bioinformatics scientists. Our rich data warehouse consist of patient-level data from clinical cohorts and clinical trials, plus meta-level data from EU-wide projects like **SQUEEZE** and **STRATA-FIT**. In our team, the candidate will have the opportunity to work on impactful clinical research projects and contribute to the development of secure federated learning systems that support data privacy and enhance research quality.

The candidate will be integrated within the [research group of Paul Studenic](#) and [the data-science and epidemiology team](#) of the Division of Rheumatology.

### Key responsibilities

- **Data management:** Work closely with clinical researchers to maintain clean data structures, perform statistical modeling, and provide insightful data analyses, graphical illustrations, and interpretations.
- **Model implementation and deployment:** Develop, implement and validate machine learning models in local environments, focusing on federated learning approaches for distributed healthcare data, package them using Docker, and manage deployment pipelines with GitHub Actions.
- **Testing and quality assurance**

### Your Profile

- **Education:**
  - o Degree in Data Science, Computer Science, Biostatistics, or a related field, ideally with a focus on machine learning and experience or strong interest in healthcare/medical research.
- **Technical:**

- Proficiency in R and/or Python (STATA, SAS), familiarity with Linux command-line operations and basic bash scripting is an asset.
- Basic knowledge of Docker containerization and Git version control, or a willingness to learn.
- Interest in federated learning.
- **General:**
  - Excellent communication skills, enjoys being integrated within a team.
  - Ability to independently learn new techniques and take part in further education.
  - The ideal candidate has a proactive, solution-oriented working attitude, being able and motivated to dive into complex data structures and willing to solve statistical and data-based challenges autonomously.
  - Excellent English in speaking and writing, German skills are appreciated.

### **Salary information**

On a post-graduate level (masters degree or equivalent) the salary for the full time position is **€3,578.80 per month**, the salary can be adjusted for candidates with significant experience according to the Austrian university collective agreement (KV) for university employees. Prospective candidates can review the salary scales for Austrian university staff [here](#) (Gehaltsgruppe B 1).

### **Application process**

The position will be funded for one year, with possibility of extension. Interested candidates should send their application (letter of motivation, curriculum vitae, certificate of the highest academic qualification, optionally letters of recommendation) as a single pdf to Priv.-Doz. Dr. Paul Studenic MD, PhD ([paul.studenic@meduniwien.ac.at](mailto:paul.studenic@meduniwien.ac.at)) and Caroline Dürrschmid, MSc BSc ([caroline.duerrschmid@meduniwien.ac.at](mailto:caroline.duerrschmid@meduniwien.ac.at)).

The application deadline is **November 24<sup>th</sup> 2024**. The position will be filled immediately. Short-listed candidates will be invited for personal interviews with Priv.-Doz. Dr. Paul Studenic MD, PhD and Mag. Claudia Hana, PhD.