

allcyte:

Research Scientist in Bioinformatics at Allcyte GmbH

Application to be sent to: HR@allcyte.com comprising a CV and a cover letter

Allcyte is a seed-phase biotechnology startup of the CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences located in Vienna, Austria, working at the forefront of functional drug profiling. Leveraging our Pharmacoscopy high-content imaging platform, we develop *in vitro* diagnostic tests for personalized cancer therapy, as well as streamline drug development in oncology and immunology/immuno-oncology.

We are looking for a highly motivated computational research scientist to take responsibility for the analysis of image-driven functional data, and image analysis workflows, with the aim of gaining a systems-level understanding of drug effects in cancer and immunity.

The candidate should have excellent analytical skills, a strong interest in image analysis, big data medicine, machine learning, and a degree (MS/PhD) either in mathematical/computational science or biology. The candidate will be required to adapt and expertly use existing bioinformatics tools, as well as develop data analysis protocols/pipelines for large image-based drug profiling campaigns and their integration with diverse -omics datasets. Strong statistical and script programming skills/experience (e.g. R - bioconductor, python, MATLAB), good command of the English language, and good interpersonal skills are a must. Experiences in artificial intelligence, computational image analysis, and advanced data visualization techniques are a bonus. The candidate will work closely in a computational team.

Pharmacoscopy is an automated microscopy platform that is uniquely compatible with primary patient samples and can measure both direct drug effects as well as immunomodulatory properties of drugs with single cell resolution. The work has been directly translatable at the academic level through an existing clinical trial (NCT03096821) for the prediction of clinical drug response in hematological cancers and is outlined in various articles (Vladimer et al Nature Chemical Biology 2017 (summarized by Derek Lowe's 'In The Pipeline'), Snijder et al Lancet Hematology 2017, Schmidl et al Nature Chemical Biology 2019, and others).

Allcyte's high-content screening technology is changing the way that drugs and other soluble factors are functionally assayed through the robust quantification of visible phenotypes, all at the single cell level. The technology has gained traction in generating functionally significant and clinically relevant data for the stratification of treatments for patients with hematological malignancies, and the assessment of pre-clinical and clinical entities for their action on the immune system.

The successful applicant will join a highly dynamic and interdisciplinary team at Allcyte in late Q1- Q2 2019. He or she will have the unique opportunity to grow with the company both professionally and scientifically, while working to pioneer innovative therapeutic and diagnostic initiatives in cancer and immunity. We offer competitive salary, including milestone-based incentives that are in line with company milestones and goals. Further, Vienna is a budding biotechnology hub in the heart of Europe and was voted the city with the highest quality of life in the world by Mercer for eight consecutive years. Allcyte is located at the Campus-Vienna-Biocenter in the 3rd District of Vienna.

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The candidate will be responsible for the following:

- Analysis and integration of patient-related high content imaging data
- Custom analysis of data from individual experiments
- AI-driven Image analysis pipeline development for routine data analysis
- Utilizing cloud computing, where appropriate, for unlimited scaling (GCP <https://cloud.google.com/customers/allcyte/> or AWS)

The candidate should have the following educational background, experience, skills:

- Masters or PhD level with a strong quantitative component
- Hands on experience in bioinformatics computational image analysis, machine learning, statistics, advanced data analysis techniques or database programming is beneficial
- Strong statistical programming skills in languages such as Python, Matlab, R, etc., are a must
- Programming skills in languages such as Fortran and C/C++ are of additional benefit
- Good communication skills
- Positive can do attitude and a desire to make a difference in medicine
- Excellent written and spoken English skills

For questions, please contact:

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