

PostDoc – in image-based assay development for Cell Therapies (m/f/d)



INVITE

Innovation is what drives us. As a non-profit research organization, we develop groundbreaking technologies with our interdisciplinary team that shape the future – and create added value for society.

Our **Vision** is to achieve substantial things through strong partnerships. Together with our broad network of scientific and industrial partners, we create synergies from which everyone benefits.

Technology is our passion, and we love to share it. Through research on industry-relevant scientific questions and further education, we prepare the next generation for the challenges of the future.

For a 2-years industrial collaboration project on the topic of “Image-based assay development for cell therapies” we are looking for you:

Your tasks and responsibilities

Amongst others, your task will include:

- Design, develop, execute, and document cell-based and image-based experiments to enable quantitative analytical readouts
- Develop image pre-processing and quality-control pipelines, and map experimental metadata (e.g., culture conditions) to image data
- Perform exploratory analysis of image data
- Develop, train, and evaluate machine learning models for image-based analytical assays (e.g., cell quality, replating efficiency, neuron tracing)

What you bring with you

- Ph.D. in Neuroscience, Stem cell or bioinformatics
- Experience in the cell culture, stem cell and/or neuron culture are preferable
- Experience in microscopy and image-analysis
- Present complex data to stakeholders
- Experience with Python programming and git for version control, and familiarity with common scientific libraries (e.g. NumPy, Pandas), and machine learning/deep learning/image analysis packages (e.g. scikit-learn, PyTorch, scikit-image, OpenCV)
- Hands-on experience with developing data pre-processing workflows, including data cleaning, normalization, mapping/merging analytical and metadata to image datasets
- Strong experience in developing and evaluating Machine Learning/Deep Learning models for microscopy image analysis (e.g. feature extraction, classification/regression and segmentation).

What you will take with you

- Experience in an industrial environment, working in an interdisciplinary setting on innovative technologies
- Collaboration and mentorship from other scientists in the team. Exchange and collaboration with other functions also involved in the development of cell therapies
- Contribution to the development of cutting-edge Cell Therapeutics advancing our fight against previously incurable diseases

INVITE GmbH strives for a gender-equitable employment structure and therefore expressly welcomes applications from women.

Contact person

Please send your complete application documents by e-mail to:

career@invite-research.com

Please use the following subject:

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