

The **Preibisch Lab** at the Berlin Institute for Medical Systems Biology (BIMSB) of the MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE (MDC) is inviting applications for the position of:

**Image Analysis Specialist / Scientific Programmer**  
(Reg.-no. 10638/2016)

The **Berlin Institute for Medical Systems Biology (BIMSB)** is an expanding program of the MDC with the focus on gene regulatory networks and molecular mechanisms of regulation in health and disease. In the Preibisch Lab (<http://preibischlab.mdc-berlin.de>) we apply cutting-edge lightsheet microscopy to image developing organisms in their entirety (<https://goo.gl/eerCMw>) in order to understand basic principles of development at cellular and transcriptional level.

Lightsheet acquisitions easily comprise hundreds of gigabytes per imaged sample and pose exciting challenges for image analysis, visualization and software development. The candidate will develop solutions for the reconstruction, segmentation and analysis of large image datasets, ideally in the context of **Java**, **ImgLib2**, **BigDataViewer** and **Fiji**. Using existing software in combination with the newly developed approaches the candidate can choose to lead or support developmental biology projects in the Preibisch lab or collaborating laboratories at the BIMSB/MDC and abroad. Potential projects include cell lineage tracing & modeling of developmental processes, multi-modal registration (light microscopy, electron microscopy, sequencing data) or simulation of light propagation in tissue. Our ImgLib2/BigDataViewer/Fiji community organizes regular meetings and **hackathons** all over the world that the candidate can choose to attend. Resulting work can be published in computer science conference proceedings or bio (-informatics) journals depending on the preference of the candidate.

The candidate should have a degree in **computer science** or related fields (M.Sc. or Ph.D.) with a background in **algorithm development** & **computer vision** (e.g. linear programming, Bayesian inference, machine learning, convex optimization, PDEs, ...) as well as strong **software development** skills.

The BIMSB/MDC offers an attractive, inspiring and international working environment in the exciting and dynamic city of Berlin. Successful candidates will be offered the position for 2 years with possible extension and compensation according to the German public salaries TVöD Bund E13 (tier depending on experience).

The MDC is an equal opportunity employer and supports gender equality. Please address enquiries about the position and perspectives to Dr. Stephan Preibisch ([stephan.preibisch@mdc-berlin.de](mailto:stephan.preibisch@mdc-berlin.de)).

Applications should be submitted including cover letter, curriculum vitae, list of publications and/or previous projects, and github profile (if applicable) in a single pdf file, maximum size 6 MB to Dr. Stephan Preibisch ([jobs@mdc-berlin.de](mailto:jobs@mdc-berlin.de)).