



- AG Solovei (Human Biology and BioImaging, Biology-II) is looking for a strongly **motivated PhD** candidate. Our group is interested in different functional aspects of **Nuclear Architecture**. In particular, we study how chromosomes are folded in the nucleus of an interphase or a postmitotic cell and what are the mechanisms of spatial compartmentalization of active euchromatin and inactive heterochromatin within a nucleus (http://www.bioimaging.bio.lmu.de/research/research-group_solovei/index.html)

One of the recently developed directions of our research is filling a surprisingly large gap in our knowledge about the spatial organization of transcription in eukaryotic cells. Using a broad variety of methods, we study how expressed genes are arranged in the context of the nucleus. Our methods include standard cell biology experimental work, molecular biology (such as RNAseq, CHIPseq, 3C-techniques), gene engineering (CRISPR/Cas9), fluorescence *in situ* hybridization (2D- and 3D-FISH), all types of light microscopy (wide field, confocal and high resolution microscopy), histology (mostly cryosections), electron microscopy, etc.

Requirements:

- Master's degree in biology
- Since our group is small and typically includes 2-3 people, the ability to communicate effectively and to work in a team
- Good knowledge of spoken and written English is essential
- Previous experience in techniques listed above and basic computer programming are not essential but definitely advantageous
- High scientific motivation
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Location:

We have offices, labs and microscopes in both Biozentrum Biologie-II and BioSysM buildings

Education:

A PhD Student will participate in the graduate school associated with the SFB1064 and graduate school of Life Science Munich (LSM)

Payment:

The PhD is supported by DFG; salary and benefits are according to a public service position in Germany (TV-H E13, 65 %)

Timing:

The project is starting from 15.08.2019, however, the position remains open until filled

How to apply:

Please submit your application (statement of research interests and experience, CV and 2 references as a single PDF file), to Irina.Solovei@lrz.uni-muenchen.de. For preliminary inquiries, you can reach us by phone: **2180-74-223**