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## Post-Doctoral Fellow in Bioinformatics Proteome organization and dynamics (#AKPD02)

The Institute of Molecular Biology (IMB) is a Centre of Excellence for Life Sciences located within the campus of the Johannes Gutenberg University in Mainz, Germany. IMB hosts researchers from a variety of backgrounds, ranging from biochemists, molecular and cell biologists to computational biologists and physicists, thus fostering an international and interdisciplinary atmosphere. IMB's state-of-the-art Core Facilities provide access to sophisticated equipment as well as training and expert advice from dedicated staff in bioinformatics, cytometry, genomics, microscopy and proteomics.

We are focused on mechanisms of proteome turnover, surveillance and quality control. Working in yeast and human cells, we aim at understanding the selectivity in the ubiquitin-proteasome system and its roles in quality control of mislocalized proteins. We employ high-throughput genetic and proteomic screens in combination with cell/molecular biology and biochemical approaches, and develop new methods, to elucidate how cells identify abnormal proteins and to explore links between protein quality control, cancer and ageing. See <https://www.imb.de/research/khmelinskii/research/>

### Areas of responsibility:

We are looking for a highly-motivated researcher with experience in bioinformatics and statistics and with a proven track record in analysis of omics data sets. Experience with analysis of next-generation sequencing data and/or high-content microscopy data is desired. You will join an internationally competitive research group and contribute to cutting-edge projects funded by an ERC Starting Grant. You will be responsible for analysis of a wide range of data sets, including next-generation sequencing and proteomics data, genome-wide genetic screens and deep mutational scanning.

### Required skills

- PhD in bioinformatics, computational biology, systems biology, biostatistics or a related field
- Experience in analysis of next-generation sequencing data and profound knowledge of NGS algorithms and software
- Experience with mining and integration of large data sets with R and Python
- Very good work organization skills and the ability to work independently
- Work experience in interdisciplinary teams
- Excellent communication skills in English

### Additional preferred skills

- Experience in analysis high-content microscopy data
- Experience in high throughput screening methods
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### We offer

- The possibility to work on cutting-edge projects using state-of-the-art technology
- A stimulating, diverse and international research environment
- Advanced training opportunities
- Career development
- Competitive salary
- Highly motivated research team

To apply, please send a single PDF file containing a cover letter explaining the reasons for joining our group, CV summarizing technical skills, personal goals and extra-scientific passions, as well as two references, quoting #AKPD02 to [personnel@imb-mainz.de](mailto:personnel@imb-mainz.de). Informal enquires should be addressed to Dr. Anton Khmelinskii ([a.khmelinskii@imb.de](mailto:a.khmelinskii@imb.de)). IMB is an equal opportunity employer.

**Duration:** Initial term of two years with a possibility of extension.

**Closing Date:** 16th January 2020. Applications will be considered immediately upon submission.

### Declaration of Consent and Data Protection

By sending us your application, you are consenting to us saving your personal data in order to carry out the selection process. You can find more information on data protection and retention periods at [www.imb.de/jobs/DataProtection](http://www.imb.de/jobs/DataProtection).