



Max-Planck Institute for Informatics



Doctoral student Computational Epigenetics / Epigenomics

Description	Requirements	Timeframe	Contact
Doctoral student in computational epigenetics / epigenomics	Strong background in computer science; programming experience; interest in biology	As soon as possible.	Send e-mail to: bioinf@mpi-inf.mpg.de

The Max-Planck-Society (MPG) is the premier basic research branch in Germany. The Max-Planck Institute for Informatics is devoted to Computer Science and Information Technology. In 2001 the institute established a Department of Computational Biology under the direction of Prof. Dr. Dr. Thomas Lengauer.

Current research activities in the Department include the areas of medical bioinformatics, with a focus on computational genomics, epigenetics, transcriptomics, HIV, HCV, and cancer, as well as basic research on the prediction and analysis of protein structure, function and interactions. Research comprises a mix of method innovation and biological, pharmaceutical and medical applications. We cooperate intensively with partners from biology labs, pharmaceutical Industry and clinics.

The Department of Computational Biology is a partner in a larger Computational Biology Center in Saarbrücken (<http://www.zbi.uni-saarland.de>), which offers several curricula in Computational Biology. Furthermore, the Department cooperates with other Max Planck Institutes, notably in the areas of Biology and Medicine as well as with Universities, Genome Centers, and pharmaceutical and biotech industry.

The Computational Biology Department offers an interdisciplinary research environment with exciting challenges on novel biological data and leading-edge expertise in one of today's most dynamic scientific disciplines. We are looking for people that are qualified and motivated to join our interdisciplinary team.

For several years, the department has performed research on epigenetics with the goal of fostering our understanding of epigenetics,

evolution and disease by computational means. These activities are integrated into sizeable German and European consortia bringing together data generation, data analysis and biological interpretation.

We are offering the position of a doctoral student in computational epigenetics / epigenomics, with a focus on novel approaches for epigenome data integration, visualization and analysis. A background in computer science and genetics is required. As part of the work, the student will contribute to the bioinformatics work package of a large European effort on epigenome mapping in the human blood/immune system and related diseases (incl. leukemia and diabetes). Expertise in machine learning and statistics is a plus. The candidate should have strong interest in collaboration with biomedical researchers.

Applications should include the usual information such as curriculum vitae, motivation letter, copies of certificates and email of two or three references. Please refer to "doctoral student in computational epigenetics" in your application. The Max-Planck Society is an equal opportunity employer. Qualifications being equal, precedence will be given to candidates with disabilities.

Contact for questions:

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Send applications to:

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WWW: [http://www.computational-](http://www.computational-epigenetics.de/)

[epigenetics.de/](http://www.mpi-inf.mpg.de), <http://www.mpi-inf.mpg.de>