

BIG DATA – BIG CHALLENGE.

COMPUTATIONAL CANCER RESEARCH AT DKFZ

INTERNATIONAL PHD PROGRAM



PHD POSITIONS IN COMPUTATIONAL RESEARCH, DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

Are you interested in solving fascinating biological or medical questions computationally? At the **German Cancer Research Center (DKFZ)**, Germany's largest biomedical research institute with its core site in Heidelberg, computational scientists work at the forefront of artificial intelligence and cancer research. They combine interdisciplinary approaches from computer science, medical informatics, physics, biology, bioinformatics and statistics to analyze and understand complex biological and medical data.

Main activities at the DKFZ involving big data:

- Development and application of machine learning and computational methods for multi-modal data integration, including integrative analysis of genomic, epigenomic, transcriptomic, proteomic, metabolomic and radiomic imaging data
- Development of methods for modeling and simulation of biological and medical processes
- Medical Informatics
- DNA mutation analysis and machine learning to decipher cancer genome variation
- Application and development of state-of-the-art technologies for single-cell omics and life cell imaging
- Computer-assisted radiology and surgery
- Biostatistical evaluation of experimental and clinical data

More information at www.dkfz.de/datascience. Full funding is provided for the duration of the PhD.

To apply online to the International PhD Program visit
www.dkfz.de/phd

Application deadline
24 April 2025

We support and value diversity and encourage applications from individuals from underrepresented groups. If you require assistance during the application process, please contact phd@dkfz.de.

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CANCER RESEARCH CENTER
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