

BIG DATA – BIG CHALLENGE.

COMPUTATIONAL CANCER RESEARCH at DKFZ

INTERNATIONAL PHD PROGRAM



PHD POSITIONS IN COMPUTATIONAL CANCER RESEARCH

Are you interested in solving fascinating biological or medical questions computationally? At the **German Cancer Research Center (DKFZ)** in Heidelberg, Germany's largest biomedical research institute, computational scientists work at the forefront of cancer research. They combine interdisciplinary approaches from 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 computational methods for the integrative analysis of genomic, epigenomic, transcriptomic, proteomic, metabolomic and radiomic data
- Development of methods for modeling and simulation of biological and medical processes
- DNA mutation analysis by next-generation DNA sequencing of individual human cancer genomes
- Application of state-of-the-art technologies in automated live-cell imaging and image analysis
- Computer-assisted radiology and surgery
- Biostatistical evaluation of experimental and clinical data
- Integration and development of new methods for systems biology and systems medicine

More information about computational research at the DKFZ can be found at www.dkfz.de/research.

Full funding is provided for the duration of the PhD.

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

If you are interested in doing your PhD in the field of computational cancer research, why not join the International PhD Program at the DKFZ?

Application deadline
5th January and 31st May

dkfz.

GERMAN
CANCER RESEARCH CENTER
IN THE HELMHOLTZ ASSOCIATION