Do you want to solve fascinating biological or medical questions using a computer? At the German Cancer Research Center (DKFZ) in Heidelberg, Germany’s largest biomedical research institute, computational scientists work at the forefront of cancer research. By combining interdisciplinary approaches from computer sciences, statistics, physics and biology, scientific computing plays a vital role in analyzing and understanding 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 research at the DKFZ can be found here.

International PhD Program at the DKFZ

Are you interested in joining the International PhD program at the DKFZ to do your PhD in the field of computational cancer research?

Application deadline: 31st May 2016

For more information visit www.dkfz.de/phd