

# PRECISION SCIENCE.

MEDICAL PHYSICS AT DKFZ

INTERNATIONAL PHD PROGRAM



## PHD POSITIONS IN MEDICAL PHYSICS AND RADIOPHARMACEUTICAL SCIENCES

Are you interested in applying physical and (radio)chemical methods in cancer research? The **German Cancer Research Center (DKFZ)**, Germany's largest biomedical research institute, has its own multidisciplinary research program dedicated to "**Imaging and Radiooncology**". This research program is concerned with introducing new findings, methods and technologies into the diagnosis and treatment of cancer. At the main site in Heidelberg and the DKFZ site in Dresden, **physicists, engineers, mathematicians, computer scientists, biologists, pharmacists and chemists** strongly collaborate to tailor tumor treatment to the individual patient and to improve possibilities of local and systemic tumor control.

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### Main research activities are focused on:

- Development of novel approaches in diagnostics and therapy, based on physical methods
- Non-invasive imaging technologies such as CT, MRI, PET/CT, and PET/MRI, and hyperpolarized MRI
- Development of techniques for precision radiation therapy like IMRT, IGRT, MR-guided radiation therapy, proton and ion beam therapy
- Imaging Data Science
- Radiotracer and radiopharmaceutical drug development including radiochemical and radiobiological approaches to achieve efficient targeting of cancer cells
- Intelligent microsystems and robotics for drug delivery, in vivo sensing, and stimulation

For more information about the groups and their research visit [www.dkfz.de/research](http://www.dkfz.de/research).

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**More information and application:**  
**[www.dkfz.de/phd](http://www.dkfz.de/phd)**

Application deadlines  
**twice a year**

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](mailto:phd@dkfz.de).

**dkfz.**

GERMAN  
CANCER RESEARCH CENTER  
IN THE HELMHOLTZ ASSOCIATION