

PhD Position in Health Economics

German Cancer Research Center (DKFZ)

Heidelberg, Germany

Are you interested in developing strategies to **improve cancer care and prevention** during your PhD studies? At the **German Cancer Research Center (DKFZ) in Heidelberg**, Germany's largest biomedical research institute, the **Division of Health Economics** offers excellent opportunities to explore the dynamics of the economics of cancer care. The recently established division aims to become the primary national point of reference on the cost of cancer and cost effectiveness of interventions seeking to improve cancer related morbidity and mortality, as well as an important contributor to the further development of health economic evaluation methods. Research is founded on costing theory, decision analysis and econometric modelling.

For more information about the department and its research, visit [our website](#).

A currently ongoing project to evaluate the **cost-effectiveness of colorectal cancer (CRC) screening in Germany** has resulted in the development of a discrete event simulation (DES) model. This model considers both adenoma-carcinoma and serrated neoplasia pathways of CRC carcinogenesis. It has been designed in R language and can be flexibly used to evaluate various CRC screening strategies. We are currently looking for a highly motivated PhD candidate interested into the evaluation of the **long-term effectiveness and cost-effectiveness of CRC screening**.

Applicants should have a background in economics, health policy, or the analysis of cancer programs (preferably colorectal cancer); knowledge of mathematics and statistics; and knowledge of the software R program. Preferably candidates should have an understanding of modeling techniques, such as Markov Model and/or DES models. Proficiency in English and strong analytical skills are a must.

The candidate will be part of the **DKFZ International PhD Program**, the structured graduate school at the German Cancer Research Center (DKFZ). Our PhD students conduct interdisciplinary research at the forefront of basic, computational, epidemiological and translational cancer research.

Do you want to join our lively and international community of over 500 PhD students? Then **apply online to the Summer Selection of the DKFZ International PhD Program**. Click [here](#) for more information and to proceed to the online application system.

Full funding is provided for the duration of the PhD, either by the DKFZ, or in collaboration with the DAAD within their Graduate School Scholarship Program.