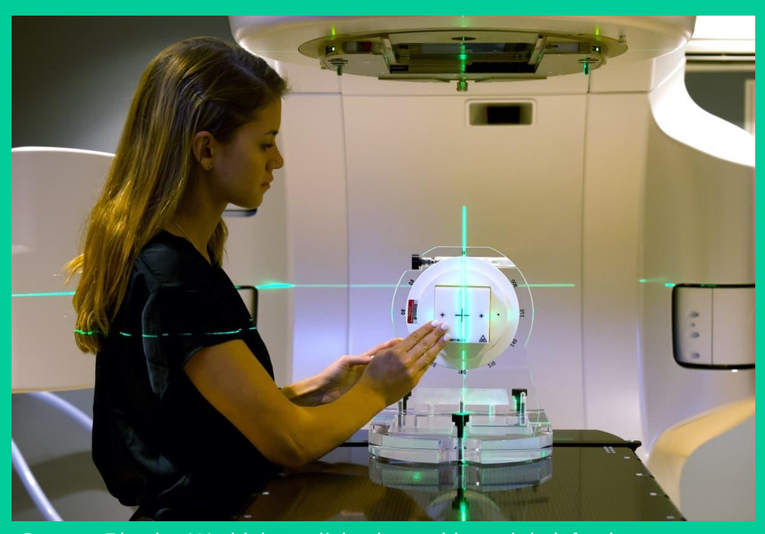
Radiotherapy Physics

What does a Radiotherapy Physicist do?

Treatment Planning

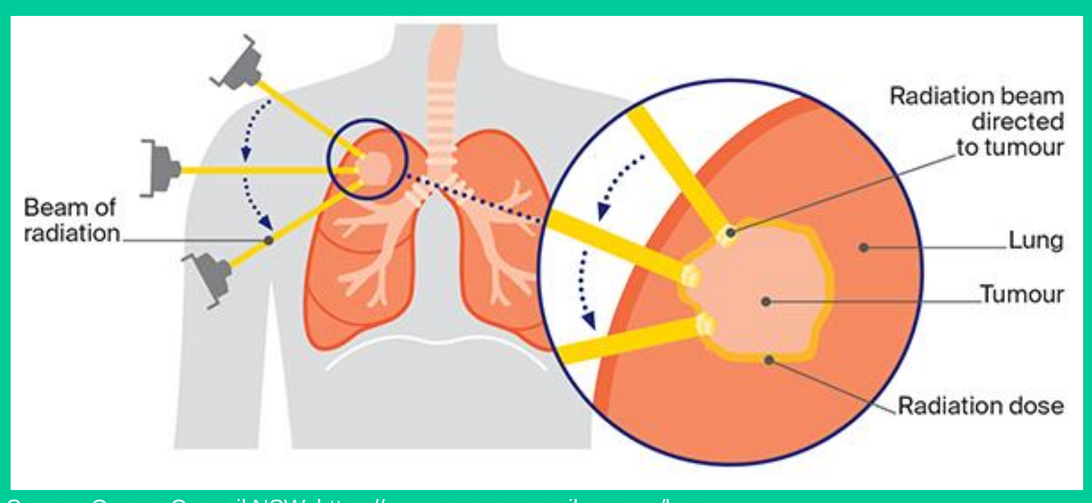
- Physicists work as part of a team to create each patient's individual treatment plan
- Use dedicated software to model and plan the treatment beams, to ensure they deliver the right dose of radiation to the right area



Source: Physics World, https://physicsworld.com/a/reinforcing-the-case-for-independent-qa-in-the-radiation-oncology-clinic/

Machine Quality Assurance

- Physicists design and perform a range of tests on treatment equipment to make sure they are safe to use and can accurately deliver patient treatment



Source: Cancer Council NSW, https://www.cancercouncil.com.au/lung-cancer/treatment/radiotherapy/

Research and Innovation

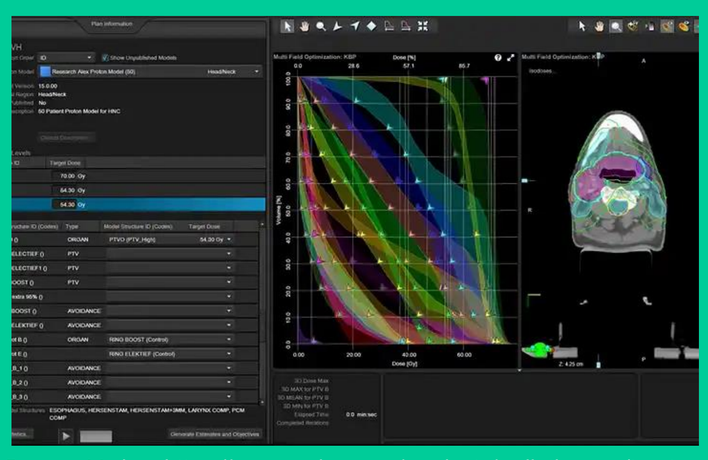
- Physicists are heavily involved at the frontiers of research in radiotherapy
- Can include working on clinical trials and developing treatment techniques
- Current research areas include use of AI in radiotherapy, proton therapy and personalised radiotherapy

Why become a Radiotherapy Physicist?

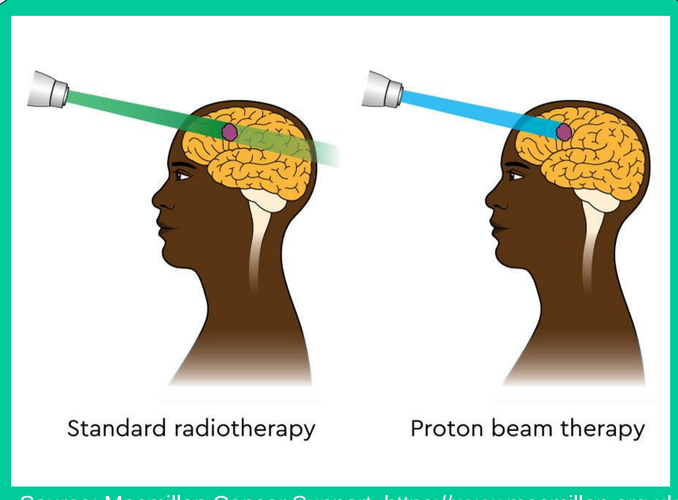
Work with a range of fascinating and advanced technology and equipment

Use your skills and knowledge in physics to help provide high-quality care to patients

Get involved in cutting-edge innovation and research projects to improve radiotherapy treatment

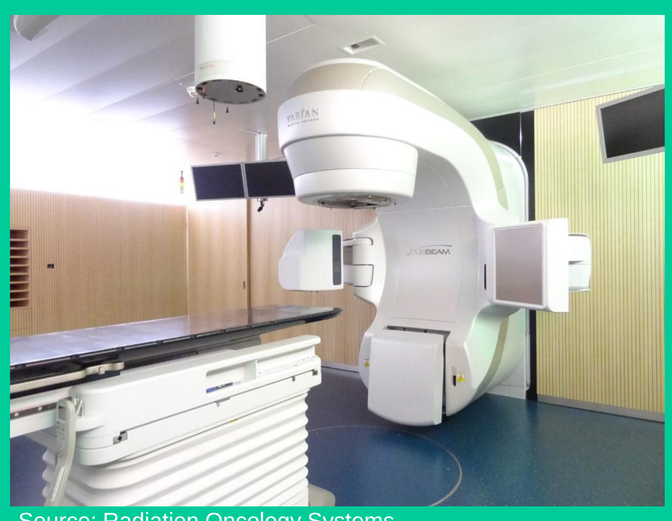


Source: Varian, https://www.varian.com/products/radiotherapy/treatment-planning/eclipse



Source: Macmillan Cancer Support, https://www.macmillan.org.uk/cancer-information-and-support/treatment/types-of-treatment/radiotherapy/external-beam-radiotherapy/proton-beam-therapy

Experience a diverse and varied field of work where you can apply and expand your knowledge and technical skills



Source: Radiation Oncology Systems, https://www.oncologysystems.com/blog/varians-newest-linac-what-will-come-next

Embark on a career where you can learn, develop and challenge yourself every day