

1.

Radiotherapy Physics

Pay Scale: £22 k - £79 k

Area of NHS: Healthcare Science
– Physical Sciences

Radiotherapy is the treatment of cancer with high energy radiation such as X-rays. Patients with various different forms of cancer will all receive radiotherapy treatment. Working in Radiotherapy physics you'll help to cure people and be responsible for the precision, accuracy and safety of the treatment.



PART 1

WHAT CAN I DO WITH A PHYSICS A-LEVEL?

2.

Radiation Physics and Radiation Safety Physics

Pay Scale: £22 k - £79 k

Area of NHS: Healthcare Science
– Physical Sciences

Lots of different forms of radiation are used in the diagnosis and treatment of patients. By working in this area you will be responsible for ensuring that equipment is safe for use, by both patients and staff. You'll use specialist equipment to measure and calculate the dose of radiation received by staff and patients.

3.

Medical Engineering

Pay Scale: £22 k - £79 k

Area of NHS: Healthcare Science
– Physical Sciences

Technology is now at the forefront of patient treatment and diagnosis in the NHS, we live in the digital age! With this career you'll have a hands on role with medical devices, modifying, altering and constructing equipment. You might also consider specialising in a certain area of equipment such as Radiotherapy.

4.

Healthcare Scientist (Medical Physics)

Pay Scale: £26 k - £99 k

Area of NHS: Healthcare Science
– Physical Sciences

As a clinical scientist specialising in medical physics you'll research, develop and test equipment used to help prevent, treat or diagnose a wide range of diseases. You will also get to develop patient treatment plans and help to protect staff and patients from radiation.

5.

Imaging (ionising)

Pay Scale: £26 k - £99 k

Area of NHS: Healthcare Science
– Physical Sciences

As a specialist in imaging, you'll work with other healthcare professionals such as diagnostic radiographers and advise them on how to produce the optimum images for the smallest amount of dosage. Your role does include quality assurance, alongside teaching, training and software development.

6.

Diagnostic Radiographer

Pay Scale: £22 k - £68 k

Area of NHS: Allied Health Professionals

Diagnostic Radiographers use the latest technology in imaging techniques to look inside the human body. They use a variety of different pieces of kits like X-rays, fluoroscopy, CT scans and MRI to discover what is going on and to help diagnose diseases.



PART 2

WHAT CAN I DO WITH A PHYSICS A-LEVEL?

7.

Therapeutic Radiographer

Pay Scale: £22 k - £68 k

Area of NHS: Allied Health Professionals

Therapeutic Radiographers are also big user of technology, but this time the technology is used to treat conditions like cancer. You'll use X-rays and other ionising techniques to target cancers and tumours. High levels of accuracy are super important to ensure only the cancer is targeted but the tissue around it remains unharmed.

8.

Healthcare Scientist (Nuclear Medicine)

Pay Scale: £22 k - £99 k

Area of NHS: Healthcare Science – Physical Sciences

Nuclear medicine is the use of radioactive substances (i.e. radiolabelled pharmaceuticals) to help treat or diagnose patients, often who are suffering from cancer. This role is extremely active and involved in treating patients. You'll be using extremely high tech and sophisticated equipment during your daily work!

9.

Sonographer

Pay Scale: £26 k - £74 k

Area of NHS: Allied Health Professionals

As a sonographer you will use 'ultrasound imaging devices' (that's an ultrasound machine to you and me) to produce diagnostic images, videos, scans and 3D volumes of the human body.

You will be responsible for the interpretation of the data you collect, writing reports to send to other doctors and consultants.