

Entry requirements, skills and interests (radiation physics and radiation safety physics)

There are separate entry points for radiation physics and radiation safety physics.

Entry requirements

To enter radiation physics, there is one entry point:

- with at least two A2 or A-levels including science subjects and a good spread of GCSEs at A to C grade by entering the NHS Practitioner Training Programme (PTP) ^[1] through a BSc (Hons) healthcare science (radiation physics). Alternative level-3 qualifications may be accepted by some universities, but you are advised to check with each university or visit their website before making an application.

Use our course finder to search for healthcare for universities offering the BSc (Hons) Healthcare Science (Radiation Physics) ^[2]

To enter radiation safety physics, there is one entry point:

- You can apply for a place on the graduate-entry NHS Scientist Training Programme (STP) ^[3] for which you must have a 1st or 2.1 either in an undergraduate honours degree or an integrated master's degree in a pure or applied science subject relevant to the specialism for which you are applying.

If you have a 2.2 honours degree or better in any subject, you will also be considered if you have a higher degree* that is relevant to the specialism for which you are applying.

(*Higher degree as defined on page 17 of The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies ^[4] Please note this does not include postgraduate diplomas or postgraduate certificates.)

Because of the extensive variation in degrees available it isn't possible to provide a definitive list of relevant degrees for entry to the [STP](#) ^[5]. For [STP](#) ^[5] positions in the physical sciences

and biomedical engineering (which include radiation safety physics), the most commonly accepted degrees will be in pure or applied physics, engineering or applied mathematics.

For all candidates, evidence of research experience (e.g. in the form of a higher degree or equivalent evidence of scientific and academic capability) is considered desirable.

You need to be sure that you've reviewed the job description and person specification for the training (on the National School of Healthcare Science's website [6]), and the information on this page. You then need to be sure to match the skills and knowledge required to the content of your degree and the specialism you wish to apply for.

For full details of entry requirements for the [STP](#) [5], including qualifications, scientific skills, transferable skills and physical requirements, please see the person specification on the National School of Healthcare Science's website [7].

It can be advantageous to have gained some experience of working in a relevant environment before applying for a place on a course or job vacancy. You should always check with the course provider or employer to see what sort of experience is preferred or required.

Find out more about the training you'll receive and registration for a career in radiation physics and radiation safety physics [8].

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**Skills, qualities
and interests
needed**

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To work in radiation physics and radiation safety physics you will need:

- effective communication skills
- a mature, calm, confident but sympathetic approach to support colleagues to achieve the best outcome for each patient
- confidence with technology, systems and processes
- to be able to work as part of a team.

If you work in a role with responsibility for resources (such as staff, budgets or equipment) you'll need excellent leadership skills and be able to use your initiative within the remit of your job role.

If you're applying for a healthcare science role or training position either directly in the NHS or in an organisation that provides NHS services you'll be asked to show how you think the NHS values apply in your everyday work. The same will be true if you're applying for a university course funded by the NHS.

The NHS values form a key part of the [NHS Constitution](#) [9].

Find out more about the NHS Constitution [10].

Source URL: <https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering/radiation-physics-and-radiation-safety-physic-0>

Links

[1] <https://www.healthcareers.nhs.uk/i-am/considering-or-university/studying-healthcare-science>

[2] <https://www.healthcareers.nhs.uk/i-am/looking-course>

[3] <https://www.healthcareers.nhs.uk/career-planning/study-and-training/graduate-training-opportunities/nhs-scientist-training-programme>

[4] <http://www.qaa.ac.uk/docs/qaa/quality-code/qualifications-frameworks.pdf>

[5] <https://www.healthcareers.nhs.uk/glossary#STP>

[6] <http://www.nshcs.hee.nhs.uk/>

[7] <http://www.nshcs.hee.nhs.uk/join-programme/nhs-scientist-training-programme/important-documents>

[8] <https://www.healthcareers.nhs.uk/explore-roles/physical-sciences-and-biomechanical-engineering/radiation-physics/training>

[9] https://www.healthcareers.nhs.uk/glossary#NHS_Constitution

[10] <https://www.healthcareers.nhs.uk/about/working-health/nhs-constitution>