

## Physical sciences and biomedical engineering

Healthcare science staff in this area develop methods of measuring what is happening in the body, devise new ways of diagnosing and treating disease, and ensure that equipment is functioning safely and effectively.

They support, develop and apply physical techniques such as ultrasound [1], radioactivity, radiation, magnetic resonance, electromagnetism and optical imaging to explore or record the workings of the body for diagnosis, monitoring and treatment.



Most healthcare science staff working in physical sciences and biomedical engineering are based in hospitals and specialist departments. Some will work with patients in their own homes.

---

### Source URL:

[https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering?utm\\_source=medicalphysics&utm\\_medium=alias&utm\\_campaign=HealthcareScience](https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering?utm_source=medicalphysics&utm_medium=alias&utm_campaign=HealthcareScience)

## **Links**

[1] <https://www.healthcareers.nhs.uk/glossary#Ultrasound>