What is Physics?

Physics aims to un of matter and ene subatomic particl itself. From fridge communication electrical system understanding of the size understanding o

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Physics is every hin to creating act as transbehaviounderst This resource is part of a set of brochures focused on subject majors; many can also be studied as minors.

What skills can graduates gain?

Through studying a degree in Physics, graduates develop a valuable set of skills and competencies, which can include:

- An understanding of how to apply scientific methodologies
- · Mathematical confidence
- Technology and computer literacy; able to use specialist software

What jobs and activities might graduates do?

Many Physics graduates are not employed as specific scientists — their physics can be applied to a range of jobs. See some job examples below.

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- Plan and carry out research experiments
- · Maintain and calibrate equipment
- · Liaise with scientists and industry personnel
- · Collect and collate data, and draft reports

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- Organise and conduct research
- Test theories and operate instruments
- Analyse data and scientific phenomena to develop explanatory theories
- · Write reports and publish articles
- · Consult with and advise industry

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- Analyse customer needs, evaluate computer software and research new technologies
- Develop software programs for new products
- · Manage software development projects

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- Determine specifications and write code
- Build prototypes of software programs
- · Test and fix computer programs and systems
- · Maintain and upgrade programs and systems

- Operate and improve diagnostic and therapeutic equipment
- Use knowledge and skills to help prevent, diagnose and treat different diseases/ conditions
- Ensure radiology, nuclear medicine and radiation treatments are safe and effective
- May develop and integrate technical aspects of websites/mobile apps along with other workers

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- Research technical or scientific documents, to assess if a product is new and innovative
- Maintain knowledge of laws and regulations
- Advise businesses, government and industry

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- Monitor weather systems and atmospheric patterns
- Analyse data and use forecasting models to predict weather conditions and climate trends
- · Prepare weather maps, forecasts and alerts
- · Design tests to measure air quality, ozone etc

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- Actuary
- · Acoustic consultant
- Astronomer
- Assistant professor
- · Data analyst / scientist
- Engineer
- · Electronics assembler / tester
- · Game developer / designer
- Geophysicist
- · Instrument technician
- · Lab demonstrator
- · Medical technician
- · Private wealth assistant
- · Metallurgist
- · Operational researcher
- · Patent attorney / examiner
- · Secondary school teacher
- · System and application development
- · Seismologist.

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I'm grateful that other educational creators have been really welcoming and friendly to me and I've loved getting to know many of them at annual VidCon events (a convention