



The Space Industry

Are these job roles part of the space industry?



YES!

- The space industry isn't just about astronauts.
- It is a really fast growing industry, especially in Hampshire.
- It needs technicians, engineers, builders, designers, data analysts, climate change specialists, geographers, HR managers, lawyers, project managers, procurement specialists or buyers, urban planners, web developers, communication specialists, physicists, mathematicians, researchers, inventors, etc.
- It includes all roles involved in developing, providing and using space-related outputs, space derived products and services and the scientific knowledge arising from space research.
- SpaceCareers.uk

Match the definition – Upstream or Downstream?

“sending objects into space
and space exploration.”

“utilising research and technology in
a range of different applications.”

Match the definition

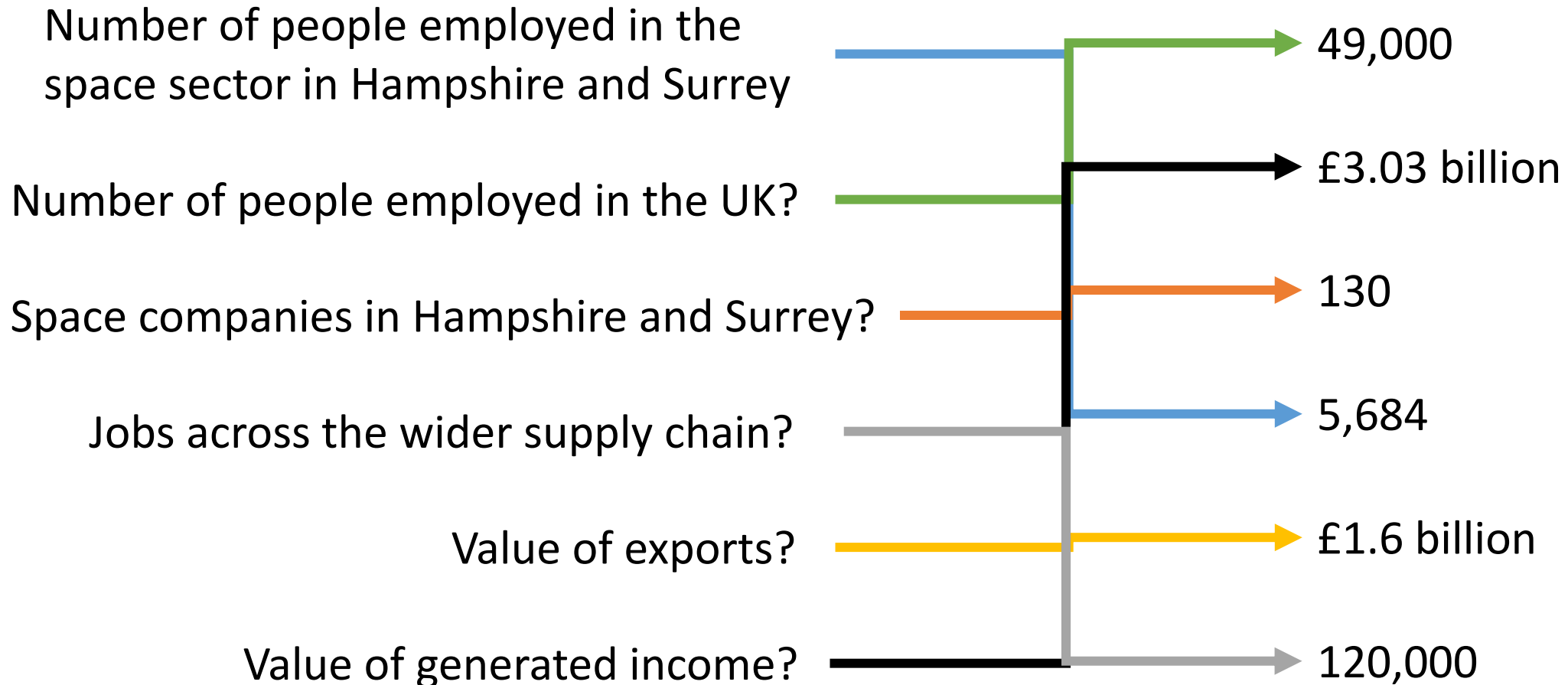
Upstream

“sending objects into space
and space exploration.”

Downstream

“utilising research and technology in
a range of different applications.”

Let's guess some space industry numbers...



What would you put into the UCAS course search if you wanted to get in via the degree route?

- [Search – UCAS](#)

Or you can get in via the apprenticeship or degree apprenticeship route... Do some research!

- [Space engineering technician / Institute for Apprenticeships and Technical Education](#)
- [All systems are go for new space degree apprenticeship - GOV.UK \(www.gov.uk\)](#)

Which route should I go?

- I like practical work
- I like hands-on experience
- I want to earn money while I learn
- I'm prepared to work in the evenings and at weekends
- I'd like to live at home or close to home

- I really like studying
- I'm good at maths and science and want to learn more
- I want to move away from home
- I'm happy to take out a student loan



Skills

- In the podcast Kathryn Graham from KIPSE talks a lot about the top skills needed to get a job in this industry, or indeed any industry!
- She especially identifies teamwork. Teamwork skills are the qualities and abilities that allow you to work well with others during conversations, projects, meetings or other collaborations.
- Write two sentences about something you have done where you have worked well in a team. Start with what you did, then say what you learnt.

I won the team player of the month award at my football club. I learnt that it is important to work with others to achieve something.

I really enjoyed our group work project in DT, where we designed a logo for a website. I had to listen to everyone's ideas and learnt a lot.

During my Duke of Edinburgh trip I had to work with others in a team to put up our tent. I learnt how to listen in order to work more quickly before the rain came down.

I work as part of a strong team in the coffee shop where I have a part time job. We all have designated roles, but also we help one another in order to make everything run smoothly.

Finally, let's go over some of the education terms in the podcast...A Levels

- A-Levels (Advanced level qualifications) are the traditional courses you would take after completing GCSEs.
- You must be between 16-18 to do these qualifications and usually have at least five GCSE's grades 9-4 with some subjects asking for high grades (6+) in the specific subjects you want to take.

T Levels

- T Levels are an alternative to A levels, apprenticeships and other 16 to 19 courses.
- Equivalent in size to 3 A levels, a T Level focuses on vocational skills and can help students into skilled employment, higher study or apprenticeships.

BTECs

- A BTEC (Business and Technology Education Council) is a more vocational focused course, meaning it's more practical, than an A-Level.
- BTECs start from level 2, which is equivalent to a GCSE, Level 3 is equivalent to an A Level.
- Some BTECs are equivalent to 2 or 3 A Levels, so you only have to study 1 or 2 subjects.
- You can apply for a BTEC from the age of 16. These are generally offered in colleges and schools.

Apprenticeships

- Apprenticeships are a job and qualification at the same time.
- This gives you the opportunity to get some work experience as well as earn certificates to add to your CV.
- To apply for an apprenticeship you must be over 16, not be in full-time education and be living in the UK.
- You will be paid a salary while you complete your qualification.

University study options

- BSC – is a Bachelors in Science, the first undergraduate degree, usually 3 years.
- MSC – is a Masters in Science, an additional year studied after a BSC.
- PhD – is a Doctor of Philosophy (but really the specific subject you choose), an additional 3 years studied after your MSC.
- <https://www.gov.uk/what-different-qualification-levels-mean/list-of-qualification-levels>