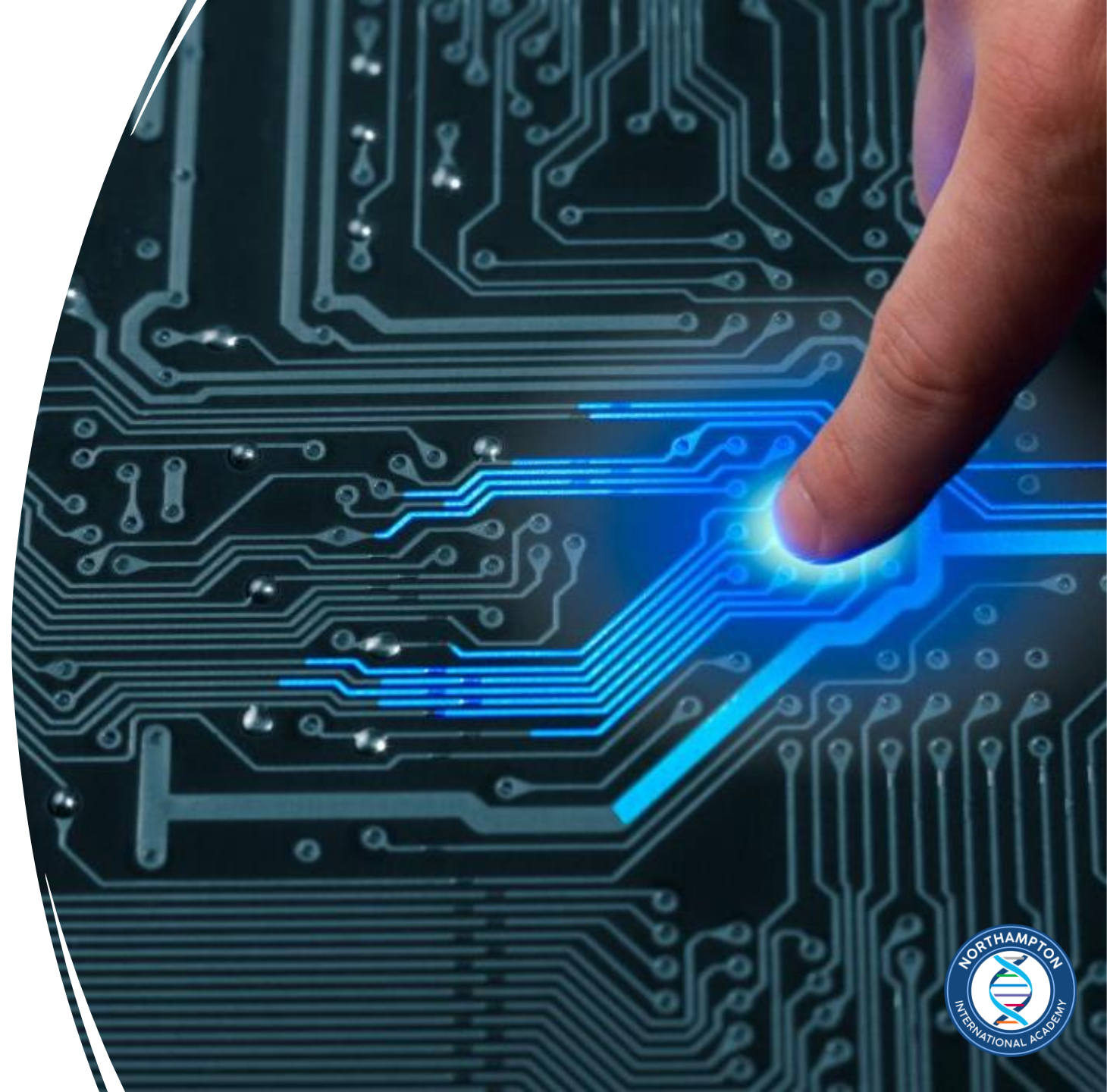


# Computer Science

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Why choose it as an  
A level?



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# Why study computer science?

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- It encompasses many things.
- There is a multiplicity of university and industry courses available.
- A lot is happening in many fields.
- It's an exciting time to be involved.
- Skilled computer scientists are highly employable.
- Employment of Computer Science Engineers is the fastest growing occupations
- And is projected to increase by 38% through the decade



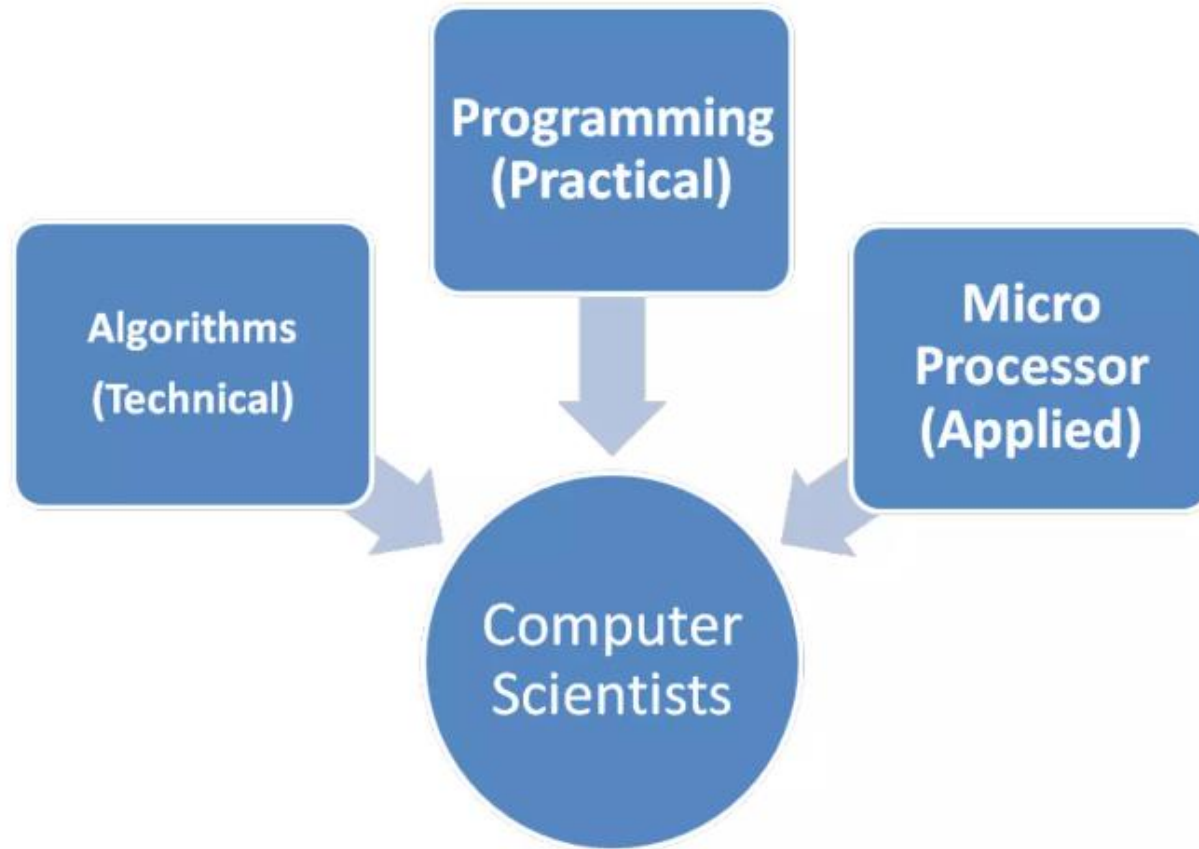


# Which means...?

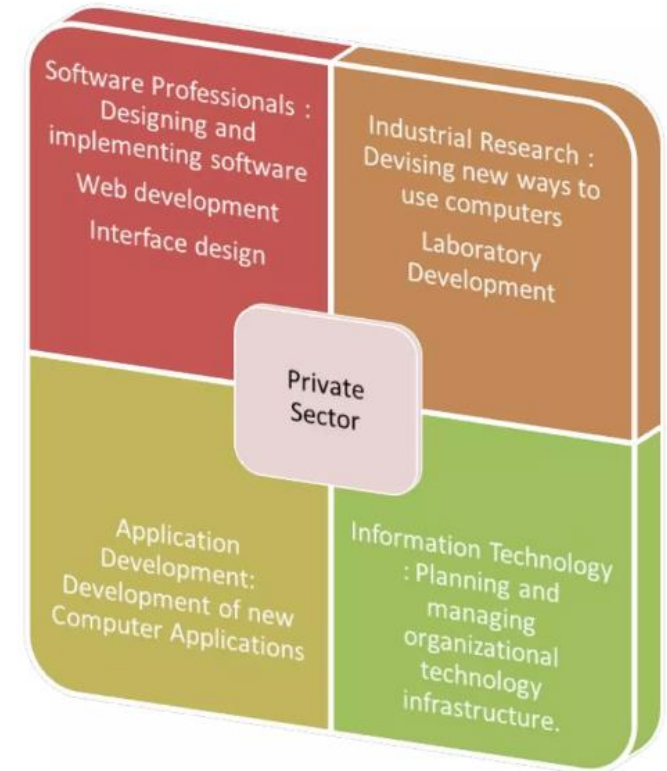
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- The most important aspect of computer science is problem solving, an essential skill for life
- Study the design, development and analysis of software and hardware used to solve problems in a variety of business, scientific and social contexts
- Because computers solve problems to serve people there is a significant human side to computer science
- It allows you to be ambitious and opens doors for you globally!
- Robotics, Drones, Coding, Cyber Security, Gaming technology will in the next few years be the big earners

The work of computer scientists falls into three categories:







# Typical PhD projects

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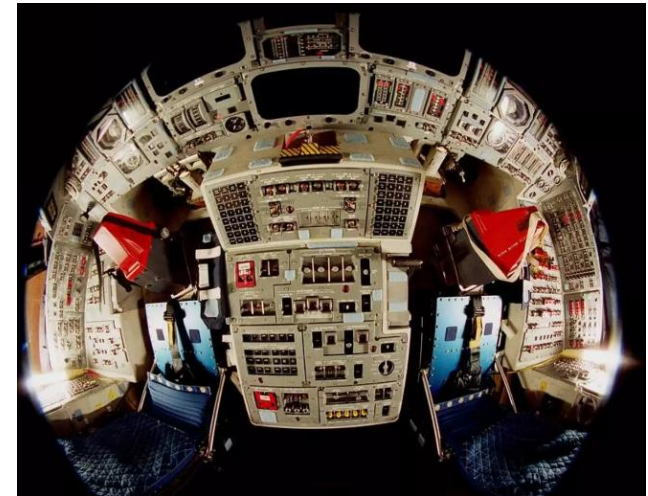
- Using AI to know when to pick delicate fruits like strawberries
- Nano-technology
- Software to diagnose patients
- Software to analyse stars and galaxies
- The possibilities are endless



# New Frontier of Computer Science



Robots



Space Centre

# A level OCR Computer Science

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- A level – builds on knowledge of GCSE Computer Science
  - Computer systems (2 hours 30 minutes: worth 40%)
  - Algorithms and programming (2 hours 30 minutes: worth 40%)
  - Programming project (worth 20%)
  - This is a real-life project. For example – create a computer system using Python, SQL database back end and web front end,
  - Or create a board game that has different levels
  - Create a NIA Location journey map
  - Student academic result tracker
  - You choose what you want to do





