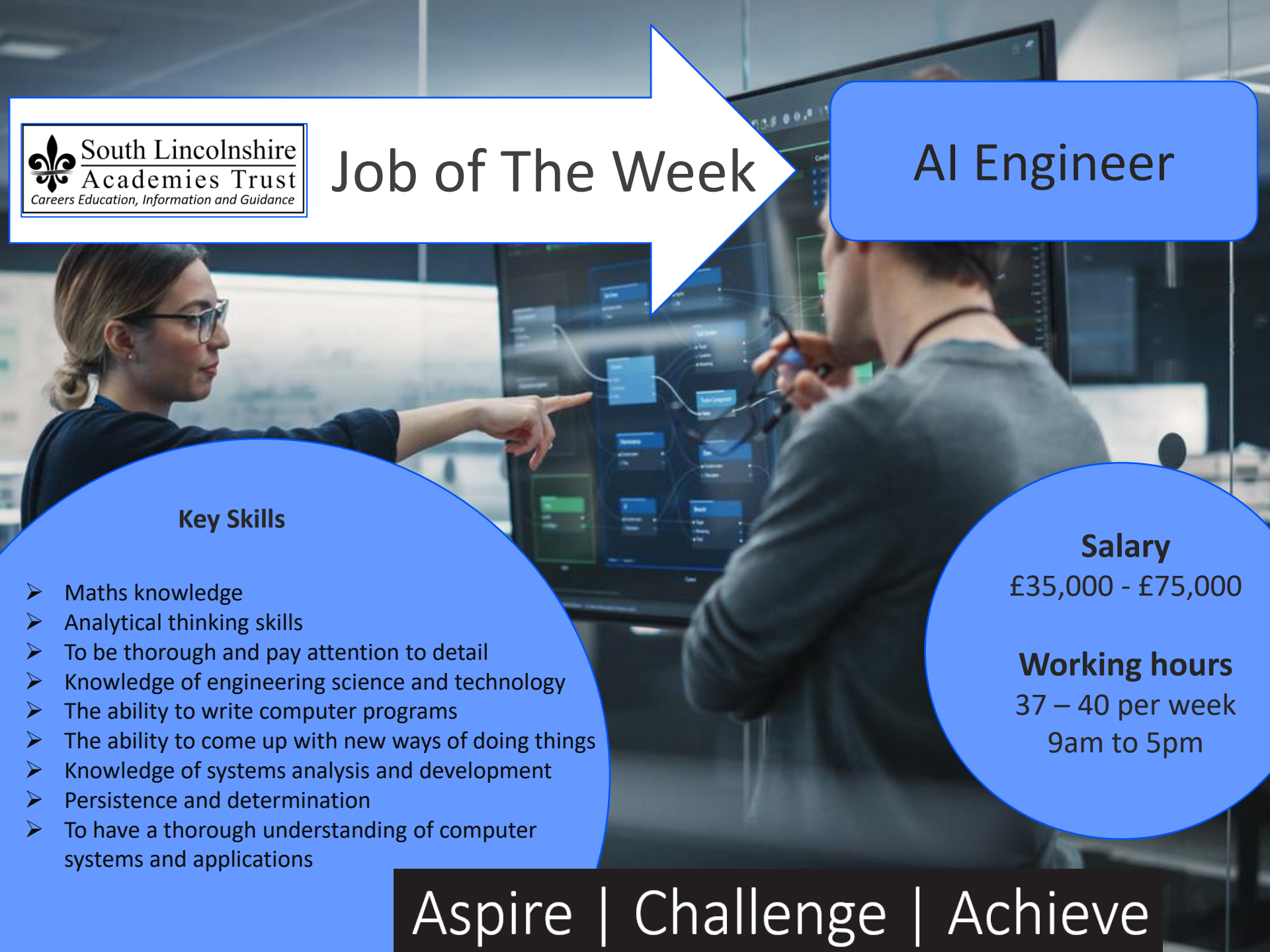

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Job of The Week

AI Engineer

Key Skills

- Maths knowledge
- Analytical thinking skills
- To be thorough and pay attention to detail
- Knowledge of engineering science and technology
- The ability to write computer programs
- The ability to come up with new ways of doing things
- Knowledge of systems analysis and development
- Persistence and determination
- To have a thorough understanding of computer systems and applications

Salary
£35,000 - £75,000

Working hours
37 – 40 per week
9am to 5pm

Aspire | Challenge | Achieve

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AI Engineer

Apprenticeship
You could apply to do an apprenticeship, for example:
•Machine Learning Engineer Level 6 (non-degree) Apprenticeship
•Artificial Intelligence Data Specialist Level 7 (non-degree) Apprenticeship
•Digital and Technology Solutions Specialist Level 7 Degree Apprenticeship
These apprenticeships are equivalent to degree and postgraduate level study and take around 2 years to complete.

Entry requirements
You'll usually need:
•4 or 5 GCSEs at grades 9 to 4 (A* to C) and A levels, or equivalent, for a degree apprenticeship

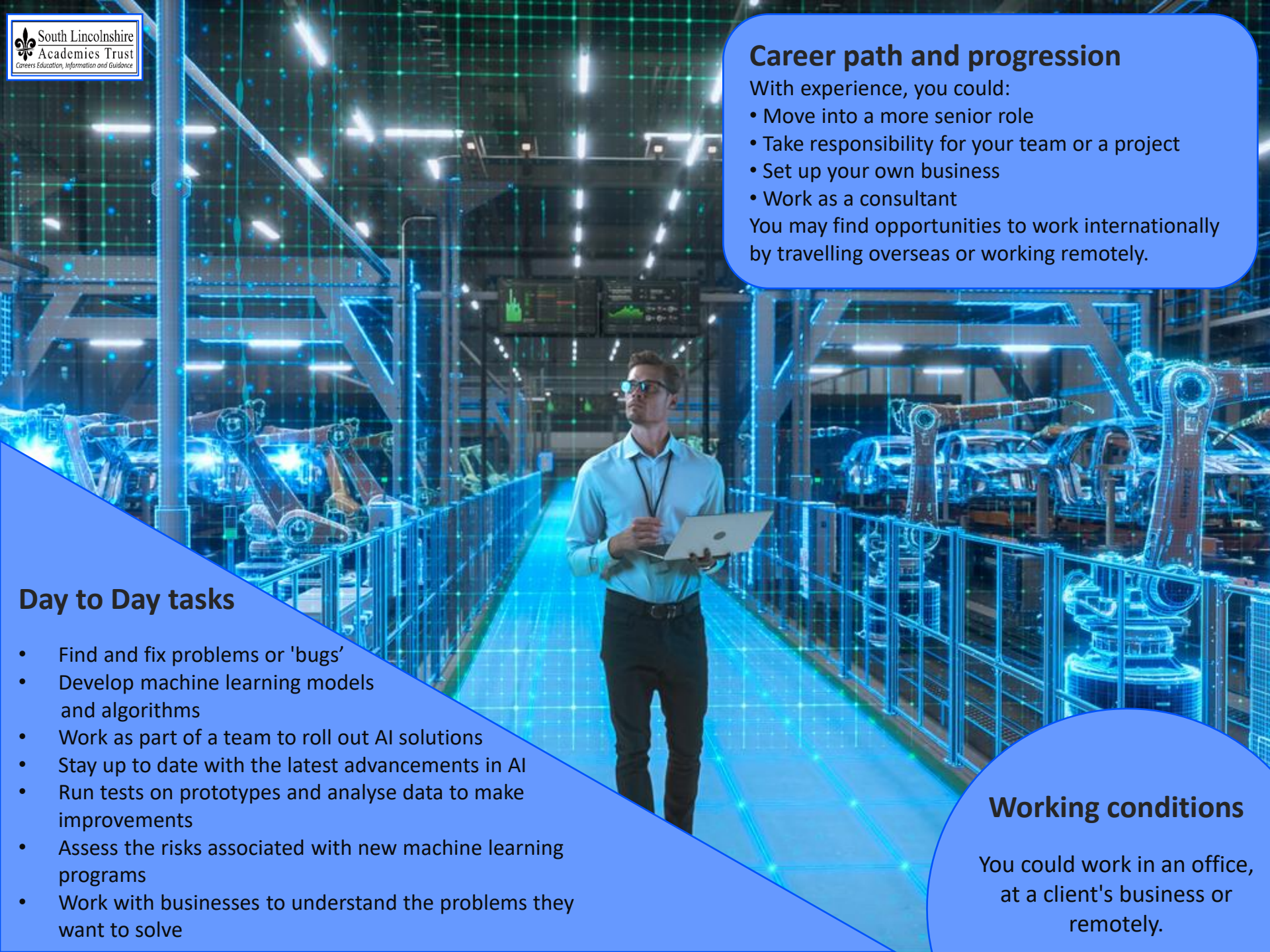
University
You could do a degree in a subject like:
• Artificial intelligence (AI)
• Software engineering
• Computer science
• Data science
• Mathematics
Some employers may also look for a postgraduate qualification in a related subject like machine learning.
You could sign up to do a free UCAS Subject Spotlight to learn more about AI and machine learning.

Entry requirements
You'll usually need:
• 2 to 3 A levels, or equivalent, for a degree
• a degree in a relevant subject for postgraduate study

Career tips
It will be helpful if you have knowledge and experience of computer programming languages, such as Python, SQL or JavaScript.
You might be able to apply to do a Skills Bootcamp in AI or machine learning.
Skills Bootcamps are flexible courses that last up to 16 weeks. You should check specific entry requirements with the course provider.

Professional and industry bodies
You could join The Society for the Study of Artificial Intelligence and Simulation of Behaviour (AISB) for training opportunities and to make industry contacts.

Further information
You can keep up to date with new technological advances and industry information from:
•The Institution of Engineering and Technology (IET)
•The Alan Turing Institute



Career path and progression

With experience, you could:

- Move into a more senior role
- Take responsibility for your team or a project
- Set up your own business
- Work as a consultant

You may find opportunities to work internationally by travelling overseas or working remotely.

Day to Day tasks

- Find and fix problems or 'bugs'
- Develop machine learning models and algorithms
- Work as part of a team to roll out AI solutions
- Stay up to date with the latest advancements in AI
- Run tests on prototypes and analyse data to make improvements
- Assess the risks associated with new machine learning programs
- Work with businesses to understand the problems they want to solve

Working conditions

You could work in an office, at a client's business or remotely.

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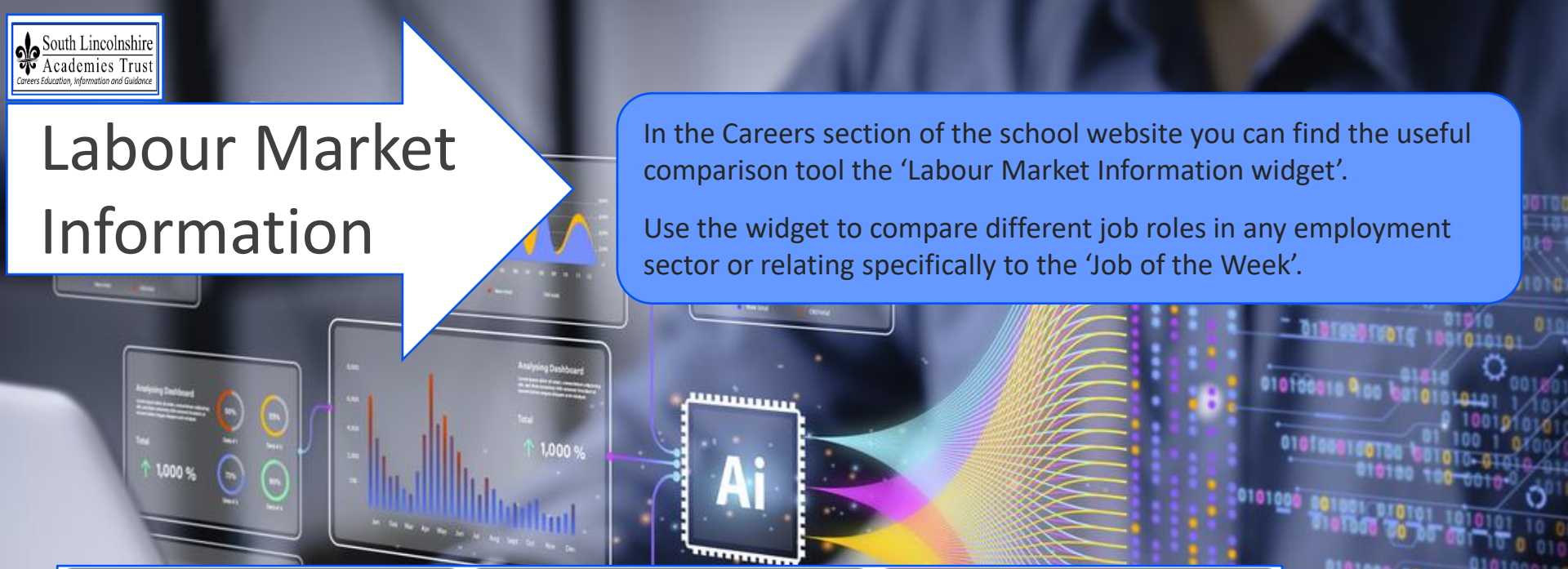
Labour Market Information

In the Careers section of the school website you can find the useful comparison tool the 'Labour Market Information widget'.

Use the widget to compare different job roles in any employment sector or relating specifically to the 'Job of the Week'.



Programmers and software development professionals

Weekly Pay	Annual Pay
£1,020	£53,040
Hours/Week	**Hourly Pay**
46h	£22

Workforce Change (projected)

Growth
11.1%

The workforce is projected to grow by 11.1% over the period to 2035, creating **55,100** jobs.

You might find this job in
Computer programming, etc
Head offices, etc
Auxiliary services
Retail trade
Financial services

More info | Clear card

IT managers

Weekly Pay	Annual Pay
£1,080	£56,160
Hours/Week	**Hourly Pay**
39h	£28

Workforce Change (projected)

Growth
11.1%

The workforce is projected to grow by 11.1% over the period to 2035, creating **23,500** jobs.

You might find this job in
Computer programming, etc
Legal & accounting
Head offices, etc
Telecommunications
Financial services

More info | Clear card

IT business analysts, architects and systems designers

Weekly Pay	Annual Pay
£1,180	£61,360
Hours/Week	**Hourly Pay**
39h	£30

Workforce Change (projected)

Growth
11.1%

The workforce is projected to grow by 11.1% over the period to 2035, creating **16,500** jobs.

You might find this job in
Computer programming, etc
Legal & accounting
Financial services
Rental & leasing
Information services

More info | Clear card

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Labour Market Information

Programmers and software development professionals

Programmers and software development professionals design, develop, test, implement and maintain software systems on a range of platforms in order to meet the specifications and business objectives of the information system; they also design and develop specialist software e.g. for computer games.

Common tasks in this job:

- examines existing software and determines requirements for new/modified systems in the light of business needs
- undertakes feasibility study to design software solutions
- writes and codes individual programs according to specifications
- develops user interfaces

Back | Clear card

IT managers

IT managers plan, organise, manage and coordinate the provision of IT and telecommunications services and functions in an organisation.

Common tasks in this job:

- plans, coordinates and manages the organisation's IT and telecommunications provision or a specialist area of IT activity
- liaises with users, senior staff and internal/external clients to clarify IT and telecommunications requirements and development needs
- takes responsibility for managing the development of an aspect of IT and telecommunications provision such as user support, network operations, service delivery or quality control
- supervises the technical team and coordinates training

Back | Clear card

IT business analysts, architects and systems designers

IT business analysts, architects and systems designers proviide advice on the effective utilisation of IT and design IT systems in order to meet the business objectives or to enhance the business effectiveness of the organisation.

Common tasks in this job:

- liaises with internal/external clients to analyse business procedure, clarify clients' requirements and to define the scope of existing software, hardware and network provision
- undertakes feasibility studies for major IT developments incorporating costs and benefits, and presents proposals to clients
- communicates the impact of emerging technologies to clients and advises upon the potential introduction of such technology
- provides advice and assistance in the procurement, provision, delivery, installation, maintenance and use of IT systems and their environments

Back | Clear card

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Keep looking…

Use these links to learn more about our Job of The Week, consider the various pathways leading to the career, what you can be doing now to help yourself and other roles in the industry…

Take a look at these short videos for inspiration…

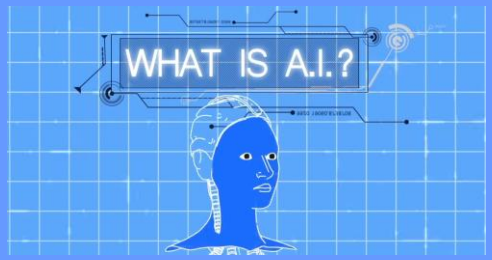
AI Engineer Career

How To Become An AI Engineer in the UK (and why it's worth it!)

BMW Careers

Artificial Intelligence at the BMW Group | BMW Group Careers.

What is A.I.?



What is artificial intelligence? - BBC News

BSc Robotics and Artificial Intelligence

BSc Robotics and Artificial Intelligence overview - University of Hull

Useful Websites

How to get a job in AI | Prospects.ac.uk

AI at Google - Google Careers

University applications for AI degrees rise 15%, data shows | The Independent

How to become a machine learning engineer in 4 steps | Indeed.com UK

Is AI Engineering a Good Career?