ITOL
RECRUIT

AI Engineer

Job Programme

www.itolrecruit.com

AI Engineer Job Programme

Build Your Future in AI. We'll Handle the Rest

Qualification:

Gain industry-leading, internationally recognised, UK-accredited qualifications

Completion Time

3 - 6 months

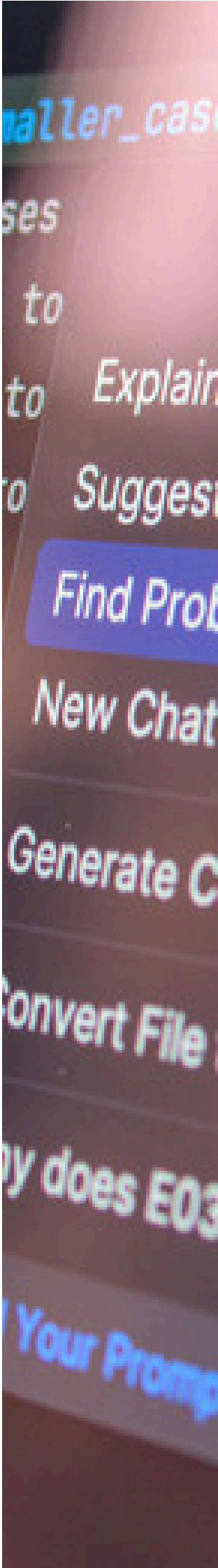
Total access period

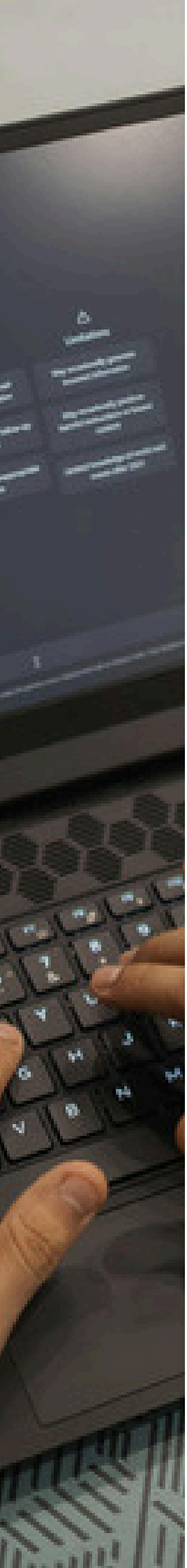
12 Months

Artificial intelligence is transforming every sector. The people who have the skills to develop and manage AI systems are shaping the future. If you are ready to take control of your career and enter one of the fastest-growing fields in tech, we are here to support you.

The ITOL Recruit AI Engineer Job Programme, delivered in partnership with industry experts, is designed to make you skilled, confident, and employable. You will acquire essential technical skills, practical project experience, and dedicated recruitment support needed to transition into an AI engineering role.

The outcome is simple. Complete the programme, follow the process and secure a job, or we will refund your investment.





What Do We Provide?

With expert training designed by AI engineering specialists, dedicated career support and a job guarantee, this programme provides a pathway into your next role.

- Project-based learning that builds skills step by step
- Industry tools, including Jupyter, VS Code and CodeQuest
- A tutor bot for real-time, targeted programme assistance
- Curriculum shaped around current AI engineering job requirements
- Access to additional technical courses for extended learning

Why Choose a Career in AI Engineering

AI engineering is not just a career. It is a skillset that opens doors across every industry as organisations race to integrate AI into their systems and services.

High Demand

- AI engineering skills are sought after across all sectors, providing strong job security and long-term career stability.

Competitive Salaries

- AI engineers benefit from substantial starting salaries and rapid earning potential as demand for their services continues to grow.

Diverse Career Paths

- From finance to healthcare, technology, retail and aviation, AI engineering skills apply across a wide range of industries.

Future Proof Skills

- AI roles focus on building and maintaining the systems that drive automation, making these positions resistant to job disruption.

The average starting salary for AI engineering roles ranges from £40K to £50K, with experienced roles reaching £65K and above.

How You'll Learn

- **Learn by doing.** You will be building AI systems from the very beginning.
- **Real-world application.** Work through practical projects and scenarios that reflect the tasks AI engineers handle in the workplace.
- **Expert support.** Our experienced tutors are here to guide you and help you with anything you need along the way.
- Our **job guarantee** means you're not just training for a role, you're landing one.

Your Pathway to Success

A structured plan is the key to building a career in AI engineering. From your first step to securing a role, we guide you through the process with clear direction and support.

1

TALK TO A CAREER ADVISOR

Not sure where to start? Our advisors help you choose the programme that aligns with your career goals.

2

COMPLETE THE TRAINING

Pass the required exams and assessments and get practical experience. Certification isn't just a bonus; it proves you are job-ready.

3

WORK WITH A RECRUITMENT ADVISOR

Get help refining your CV, optimising your LinkedIn profile, and preparing for interviews. When the right opportunity comes up, you'll be ready.

4

SECURE THE JOB

With tailored career support, you'll have everything you need to start your new role.

Where Could This Take You?

A career in AI Engineering offers job stability and significant earning potential. With the skills you will gain, you will be ready for a range of exciting and future-proof roles.

Here's where you will go:

JUNIOR AI ENGINEER

£40K - £50K

Work with established AI models, supporting data analysis and model deployment. Assist in the development and testing of machine learning algorithms, helping teams build functional AI systems.

AI SOFTWARE ENGINEER

£50K - £65K

Lead the development of AI systems, from building machine learning models to deploying them at scale. Manage AI projects, ensure model efficiency, and collaborate with cross-functional teams to integrate AI solutions.

SENIOR AI ENGINEER

£65K - £85K

Design and develop complex AI systems and algorithms. Work on cutting-edge AI projects, oversee AI model training, and drive innovation to solve high-impact business challenges.

RECRUITMENT

You've built the skills, completed the projects, and earned your qualifications. Now it's time to secure the role.

That's where we come in.

Our Candidates Have Achieved Exceptional Career Growth

75%

Of our candidates securing roles within the first 3 months of passing their exams.

60,000 ENROLLED STUDENTS

Students enrolled at ITOL Recruit over the past 18 years.

£35K AVERAGE SALARY

Average salary of students who have secured jobs after completing the AI Engineer Job Programme.

Your Job, Guaranteed or Your Money Back

We stand by our training. Follow the process, complete the programme, and secure a role, or you get your money back.

Our job guarantee includes:

- Personalised career coaching tailored to your job search.
- An optimised CV and LinkedIn profile to attract employers.
- Comprehensive interview preparation so you feel confident in every opportunity.

The Process

Preparation

We know what hiring managers ask because we've helped thousands of candidates through this process. Our recruitment advisors offer one-to-one exam prep sessions tailored to the role and company you're interviewing for, ensuring you're fully prepared for the questions and assessments.

CV & LinkedIn Overhaul

Your CV and LinkedIn profile are your tickets to getting noticed. Our team works with you to sharpen them so you can stand out in a competitive market.

Mock Interviews

Confidence comes with practice. Our mock interviews allow you to refine your responses and get feedback.

Job-Related Assessments

Some roles involve extra hurdles – tests, case studies, or technical challenges. We'll make sure you know what to expect and how to handle them.

Job Application Support

We guide you through the process, from knowing where to apply to ensuring your application hits the mark. With us in your corner, you will make real progress toward landing your role.

We back that confidence with a **job guarantee or your money back.**

SUCCESS STORIES

Real success stories from students who've completed the programme and launched their careers.

We could tell you, but our candidates say it best.

Lee Clarke

From: Virtual Copy Editor
To: Video Game Programmer Apprentice at **Ubisoft**

Lee transitioned from editing to coding after joining ITonlinelearning's Coding Career Programme. With no prior experience, he gained the skills and support needed to land a programming apprenticeship at Ubisoft. He praises the programme for its structure, mentorship, and career guidance.

Read The Full Story →

Werner Gomindes

From: Reservations Agent
To: Systems Engineer at **Synetec**

Werner enrolled in ITonlinelearning's Coding Placement Programme, completing certifications in HTML, CSS, Python, AWS Cloud Practitioner, Command Line, GitHub, and JavaScript. With ITonlinelearning's support, including CV redrafting and interview preparation, he applied to 170 positions, leading to multiple interviews. In May 2024, he secured a hybrid Support Engineer role at Synetec, achieving a significant salary increase. Werner values the structured programme and comprehensive support from ITonlinelearning, recommending it for those seeking a career change.

Read The Full Story →

Johnny Lau

From: Care Technology Installer
To: Junior Software Developer

Johnny transitioned from working as a teaching assistant in Hong Kong to becoming a Care Technology Installer in the UK, thanks to ITonlinelearning's Coding Programme. The course gave him practical, hands-on experience, technical skills, and the confidence to thrive in the tech industry. With strong tutor support and real-world projects, Johnny was able to bridge the gap between theory and application—ultimately securing a meaningful role where he uses technology to make a difference.

Read The Full Story →

Excellent **4.8** out of 5 based on 7,000+ reviwes on Trustpilot

AI ENGINEER CURRICULUM

Our programme is a proven blueprint to career success.

Your Training Breakdown

The programme uses a scaffolded approach that gradually builds your foundational knowledge, followed by practical projects that apply those skills in real-world situations. This structure is designed to provide you with immediate job readiness, with each project increasing in complexity as your skills evolve.

What does the whole study journey look like?

AI Engineering Fundamentals

This first course is where you will learn how AI works and gain a foundational knowledge of what is involved in AI Engineering. You will learn about different types of AI, including neural networks and large language models, and be introduced to some techniques used for training and fine-tuning models. The course covers essential concepts, including prompt engineering, RAG, vector databases, AI architectures, and foundation models, providing the knowledge needed to understand AI engineering and how modern AI systems work.

Data Fundamentals

This course provides essential knowledge for working with data in AI projects. You will learn about data analysis, different data types and categories, and the complete data workflow from collection through to cleaning. The course provides an understanding of the key skills, knowledge and techniques used to prepare data for AI applications.

Notebooks & IDEs

In this course, you will learn how to use the essential tools for building AI systems. Which include Jupyter notebooks, which are widely used in data science, machine learning, and AI engineering and VS Code, a powerful code editor developed by Microsoft, that has become one of the most popular tools for software development.

Python Fundamentals

This course teaches you the essential Python programming skills needed for AI engineering. You will learn Python basics, including operators, conditionals, and loops, then progress to working with data structures like lists, tuples, arrays, dictionaries, and sets. You will learn how to use methods, list comprehension, and lambda expressions, along with essential principles like inheritance, polymorphism, encapsulation, abstraction and object-oriented programming (OOP).

Python Streamlit Project

At this stage, you will start your first hands-on project that puts your Python skills into practice by building a car price prediction application. You will develop a complete working app using Python and Streamlit, applying the programming fundamentals you've learned to create an interactive tool that predicts vehicle prices. This project gives you critical foundational experience in building real-world AI applications.

Python for Data

This course introduces the essential Python libraries used for data manipulation and visualisation in AI projects. You will learn to work with NumPy for numerical computing, Pandas for data analysis and manipulation, and Matplotlib and Seaborn for creating visualisations. These powerful libraries form the foundation of the Python data science toolkit and are crucial for preparing and exploring data in AI engineering.

AI Sentiment Analysis Project

This next project challenges you to build a sentiment analysis movie classification application using real-world AI techniques. You will work with Hugging Face and pre-trained models to create a working classifier, learning how to handle evaluation metrics, confusion matrix heatmaps, and error analysis. The project covers security considerations, edge cases, custom data handling, and finetuning techniques, culminating in an interactive Streamlit application complete with a professional readme and Git Hub repository.

AI Prompt Engineering

This course explores the art and science of prompt engineering for working with large language models. You will learn about prompt engineering and how it is used for AI engineering. The course covers system prompts, APIs, and techniques for developing effective prompts that control output and provide context. You'll learn about strategies including chain of thought reasoning, few-shot and zero-shot learning, context length, as well as defending against prompt attacks.

Retrieval-Augmented Generation (RAG)

This course introduces Retrieval-Augmented Generation (RAG), a powerful technique for enhancing AI applications with external knowledge. You will learn how RAG works, how to build knowledge bases, and explore different RAG architectures. The course covers embeddings, vector databases, and Pinecone, teaching you how to create AI systems that can access and utilise specific information beyond what's contained in the base model's training data.

AI Specialised Customer Service Chatbot Project

This comprehensive project-based course brings together prompt engineering and RAG to build a complete AI system from front to back end. You will create a working application that uses vector databases and custom knowledge bases to deliver intelligent responses through carefully crafted prompts. The project covers common architectural patterns for AI applications, teaching you how to integrate RAG pipelines with frontend and backend components to create a production-ready system that leverages external knowledge and contextual information.

Machine Learning Fundamentals

This course provides a comprehensive introduction to machine learning principles and practices. You will learn what machine learning is, explore ML operations, and dive into key concepts like linear regression and different types of ML algorithms. The course covers essential techniques including scikit-learn for training and testing models, scaling and regularization methods, data processing workflows, and handling outliers and encoding. You'll gain practical understanding of the challenges in machine learning and the foundational skills needed to build effective ML systems.

Machine Learning Project

This project gets you working on basic machine learning tasks in a practical ML project. You will apply fundamental techniques to help build a working model, gaining hands-on experience with techniques around data preparation, training, and evaluation in a real-world context.

AI & Data Ethics

This short course explores the ethical considerations and responsibilities in AI engineering and working with data. You will examine issues like bias in AI systems, data privacy, fairness, transparency, and accountability. The course covers ethical frameworks for decision-making, the societal impact of AI technologies, and best practices for developing AI systems that respect user rights and promote equitable outcomes.

Oral Exam

As part of the AI Engineer Job Programme, you will complete a virtual oral exam to assess your understanding of the programme material and your ability to apply what you have learned in practice.

The oral exam forms part of the overall assessment of the programme.

AWS Certified Cloud Practitioner

As part of this programme, you will complete the AWS Certified Cloud Practitioner course and exam, which forms the final assessment of the programme.

The AWS Certified Cloud Practitioner course introduces learners to core cloud computing concepts and the fundamentals of Amazon Web Services (AWS).

It is designed to provide a broad understanding of how cloud technologies are used in real-world environments.

YOUR SUPPORT TEAM

Success doesn’t happen in isolation.

Throughout the programme, you’ll have access to expert tutors, interactive learning tools, and a support network designed to keep you on track.

Your Support Team

The Learning Phase:

One-to-One Tutor Support

Your tutor is just a message away. Whether you need to arrange a one-to-one call, get additional study materials, or ask questions about your course, they're there to help. And with real industry experience in AI engineering, they can provide insights beyond the curriculum.

Personalised Feedback

Learning isn't one-size-fits-all. Your tutor works closely with you to understand your strengths and areas for improvement, tailoring their approach to maximise your growth. Exam prep is thorough, ensuring you're not just familiar with the material but fully prepared to pass.

Course-Specific Webinars & Tutorials

We know what challenges students face because we've trained thousands of them. That's why we provide a library of tutorial videos and live webinars that dive into the finer details of AI engineering – giving you extra clarity when you need it.

Resource Library & Peer Network

Beyond structured training, you'll have access to an extensive resource library with additional study materials to support your learning. You'll also join an exclusive Online Community of fellow students, giving you a space to connect, ask questions, and engage with people on the same journey.

With structured learning, hands-on experience, and expert support at every step, we're confident in getting you hired. And if not? You get your money back.

Why wait?

START NOW

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