# Innovation Engineer Placement

**The opportunity:**

Launched in September 2021, the ALTEN UK Innovation Lab brings together complex real-world industry challenges, smart technology, and an enthusiastic group of innovation engineers to deliver end-to-end technology projects that support ALTEN’s engineering services. Projects are focused on digital transformation, process/system automation and leveraging the value of data through visualisation and data science techniques.

Previously completed projects have included:

* Object Detection in Satellite Imagery (arial imagery and radar) to evaluate COP26 deforestation target progress.
* Contrail formation and persistence modelling, to calculate altitude-optimised flight paths that minimise the global heating effects.
* Automation of critical inspection point identification, analysis, and markup for aerospace repair documentation (OCR, image segmentation, spreadsheet generation, python GUI)
* Winning the ZF Open-Source Mobility Hackathon with a set of simulations testing traffic control interventions to reduce the transit time of an emergency vehicle through a city
* Working with the MOD to investigate the suitability of Boston Dynamics robots for delivery of food, equipment, and fuel in conflict zones

This 1-year placement offers the opportunity to have early responsibility as part of this new dynamic team and to apply ground-breaking technology to real world problems.

You will be:

* Delivering on agile technology projects throughout their lifecycle: from setting objectives, thinking up smart solutions, to validating the performance of those solutions
* Utilising innovation development methodologies
* Expanding and using your technical skills
* Working with ALTEN consultant teams to validate and improve your solutions
* Learning how to report, present, and discuss your work

**Who are we looking for?**

The ideal candidate is curious, positive, creative, collaborative, and looking to challenge themselves. We need individuals who are comfortable with change and ambiguity and are ready to hit the ground running to deliver impactful projects as part of a cross functional team.

We also celebrate multiple approaches and points of view. We believe diversity drives innovation, so we are building a culture where difference is valued and encouraged.

**Requirements:**

* You are currently working towards a Master’s degree in Data Science, Computer Science, or similar
* You have experience in programming (ideally Python or JavaScript)
* You write clean code, test thoroughly, and care about the people who use the things you create, taking pride in your work
* Preferably you also have experience with Machine Learning, Big Data, or Artificial Intelligence technologies
* You bring a technical and analytical approach to problem solving
* You’re curious and want to explore different options to solve a challenge, and are open to any of them being the best solution.
* You demonstrate a high level of communication skills
* You have evidence of independently growing your own knowledge, skills, and experience
* Legal right to work in the UK

**Location:**

* Based at the ALTEN Derby office (Edward Lloyd House, Pride Park)
* Flexible/hybrid working options available
* Some travel may be required

**Who we are:**

ALTEN, a leader of engineering and technology consultancy, provides support for its clients in the fields of engineering, R&D, and IT systems in over 28 countries. Made up of 34 000 engineers, ALTEN provides support in Aerospace, IT, Defence, Ground Transportation, Energy, Life Science, and Financial Services.

**What we offer:**

* Salary: £21,600 base + £2,000 bonus
* Vacation: 20 days (just checking this is correct)
* Standard ALTEN Benefits