

The Innovate STEM Workshop is designed for ambitious Language in Action students who are curious about how technology works and eager to explore real university-level STEM activities while still developing their English skills.

This three-hour workshop offers an accessible and highly interactive introduction to science, engineering, robotics, or coding, taught inside the UCL laboratories by one of our university lecturers. The session is designed so that students with all levels of English can fully participate, learn, and create using simple instructions, demonstrations, and guided tasks.

What Students Will Experience

Over the workshop, students engage with a series of exciting STEM taster activities, such as:

- **Robotics & Automation:** What makes a robot “intelligent”? Where are robots used today? Students explore real-world examples and ethical challenges in modern robotics.
- **Engineering Principles in Action:** Through simple hands-on experiments, students learn how sensors, actuators, and mechanical systems allow robots and machines to move, react, and problem-solve.
- **Beginner-Friendly Coding:** Using a visual drag-and-drop coding tool, students learn the basics of programming in a fun, intuitive way—no prior experience needed.
- **Robot Arm Simulation:** Students use the Rocksi online robotics simulator to control a 3D robot arm, animate movements, create simple programs, and attempt challenges such as stacking virtual cubes.
- **Future Pathways in STEM:** The workshop also highlights exciting careers in engineering, robotics, computing, and AI, helping students imagine new possibilities for their future studies.

A Unique Academic Experience

This workshop gives Language in Action students an authentic taste of life inside a UK university:

- Taught in UCL labs
- Led by a university professor
- Using real tools and professional software
- Hands-on, exciting, and highly interactive

Students leave with new skills, greater confidence, and a valuable academic experience they can talk about in school interviews, personal statements, or future study applications.

The Innovate Summer Academy Career Masterclass equips students with the professional skills, confidence, and insider knowledge needed to take their first steps toward future academic and career success. The masterclass is interactive and action-focused, ensuring every participant leaves with new skills they can apply immediately.

Key Themes and Activities

CV and Résumé Writing

A practical workshop guiding students through the principles of strong CV writing, structure, phrasing, evidence of achievement, and tailoring applications for specific roles or industries.

Interview Techniques

Through discussion, demonstrations, and optional mock interviews, students gain insight

Innovate Summer Academy:

STEM Workshop

A hands-on taster experience in Science, Engineering, Robotics & Computer Science

Term 1:

Wednesday 15th July 1-5pm

Term 2:

Wednesday 29th July 1-5pm

Term 3:

Wednesday 12th August 1-5pm

Innovate Summer Academy:

Career Masterclass

Term 1: Friday 17th July 7-9.30pm

<p>Term 2: Friday 31st July 7-9.30pm</p> <p>Term 3: Friday 14th August 7-9.30pm</p>	<p>into common interview formats, effective communication techniques, and strategies for answering competency-based questions.</p> <p>● Networking Skills Students are introduced to the art of networking, how to build professional relationships, make a positive impression, and communicate confidently in academic and career settings.</p> <p>● LinkedIn & Professional Online Presence The session includes a hands-on introduction to LinkedIn, helping students understand how to build a professional profile, showcase achievements, connect with mentors, and manage their online presence.</p> <p>By the end of the Career Masterclass, students will have:</p> <ul style="list-style-type: none"> • a clearer understanding of career pathways and opportunities, • the basis for a polished and professionally structured CV, • improved interview confidence and communication skills, • a strategic approach to networking, • and a strong foundation for building their academic and professional identity.
<p>Innovate Summer Academy:</p> <p>University Visit</p> <p>Term 1: Monday 13th July 1-5pm</p> <p>Term 2: Monday 27th July 1-5pm</p> <p>Term 3: Monday 10th August 1-5pm</p>	<p>At Innovate Summer Academy, our university visits provide students with an authentic, firsthand experience of academic life at some of London's most prestigious institutions, including Imperial College London, King's College London, or the London School of Economics. These visits are a highlight of the programme and are designed to help students imagine their future academic path while gaining meaningful insight into the expectations and opportunities at world-leading universities.</p> <p>Each visit includes a guided campus tour, giving students the chance to explore teaching spaces, libraries, lecture halls, and student hubs, while learning about the character and culture of each institution. The tour offers a comprehensive understanding of how these universities support learning, wellbeing, and community.</p> <p>A distinctive feature of Innovate's university visits is the opportunity for students to attend an on-campus academic class delivered in a real lecture theatre, taught by one of our Innovate faculty lecturers. This session serves as a high-impact introduction to university-level learning and may cover topics such as:</p> <ul style="list-style-type: none"> • Pre-orientation to university life • Academic skills for success at university • Preparing competitive applications for university entry <p>This combination of immersive exploration and academic engagement provides students not only with inspiration, but also with practical knowledge to help them plan their next steps with confidence.</p>