

## **Daily Programme The Young Forensic Science**

### **DAY 1 – ENTER THE SUMMER EXPERIENCE**

2:00pm **Start**

#### **Afternoon The Summer Experience Begins**

Over the next five days you will step into the shoes of a forensic scientist and learn the basic skills needed to navigate the industry. Through a series of immerse activities and workshops, you will conduct proper forensic procedures, read and analyse witness statements and investigate a simulated crime scene and proceed to approach it from the point of view of a first responder, fingerprint analyst and blood spatter analyst.

- Your journey starts here: step into the shoes of a top forensic scientist
- Keynote speech by the Programme Director: discover what the Summer Experience has in store and how to make the most of this unique experience
- Immersive group activities: develop crucial forensic skills for the Summer Experience ahead, including attention to detail, problem-solving and time management
- Interactive networking session: meet fellow students – talented and ambitious individuals from around the world who can act as powerful contacts for your future career

6:00pm **Close**

### **DAY 2 – THE WORLD OF A FORENSIC SCIENTIST**

10:00am **Start**

#### **Morning The World of a Forensic Scientist**

Step into the world of a forensic scientist and acquire the hard and soft skills needed ahead of entering a crime scene.

- Explore the demands and expectations in the forensic industry
- Discover what a day in the life of a forensic scientist entails
- Working in a field vs working in a laboratory
- Examine the importance of collaboration across different fields and specialities
- Time capsule: lessons from the past and an exploration of the future of the industry

#### **Afternoon Essential Forensic Skills**

- Familiarise with the routine duties performed in a forensic science laboratory
- Soft skills: critical thinking, decision making, attention to detail

- Robe up: walk through the best practise of hygiene and clothing to prepare for a crime scene
- Brush up on pipetting skills and risk assessments

5:00pm **Close**

## DAY 3 – THE FORENSIC MIND

### Morning **The Basic Forensic Procedure**

Familiarise yourself with the chain of evidence required when examining forensic cases and receive valuable tips on how to compile and deliver that evidence in an expert witness statement in court.

- Understand the strategy used in approaching a crime scene
- Practice conserving the sanctity of evidence whilst gathering different types of exhibits
- Hot seat: undertake a series of small escape room exercises with guidance from experienced forensic professionals
- In the limelight: test your attention to detail and problem-solving skills

### Afternoon **Public Speaking in Court**

- Introduction to witness statements and their delivery in court
- Practice writing and presenting witness statements
- Mind over matter: learn how to deliver expert testimony and familiarise yourself with the jargon used in court procedures
- Take the stand: perform a mock court exercise and deliver a witness statement whilst being cross-examined by your peers

5:00pm **Close**

## DAY 4 – ENTER THE CRIME SCENE (PART 1)

10:00am **Start**

### Morning **The First Responder**

Walk through a simulated crime scene and navigate its complexities as a first responder and a fingerprint analyst.

- Walk through a live demonstration of a crime scene strategy
- Photograph evidence to capture the initial state of the scene
- Sketch the scene with dimensions to keep on record
- By the book: package and label evidence into the correct containers for transport
- On duty: perform on-scene tests including finger-mark powdering and presumptive blood testing

### Afternoon **The Fingerprint Analyst**

- Introduction to the principles of fingerprint identification
- The devil is in the details: identify different fingerprint pattern types and their characteristic markings
- Examine the ways that fingerprint patterns are collected: patent vs latent prints
- Explore the effects different surfaces have on fingerprint deposition
- Fine-tooth comb: navigate a crime scene and match the correct fingerprints to a potential suspect
- Goggles on: perform different techniques on the gathered prints to better visualise them

5:00pm **Close**

### **DAY 5 – ENTER THE CRIME SCENE (PART 2)**

10:00am **Start**

### Morning **Blood Spatter Analysis**

- Familiarise yourself with the basics of blood patterns analysis: introduction, classification and terminology
- Observe how different blood patterns are generated in a crime
- Generate different spatter for subsequent analysis, Dexter Morgan style
- Identify the crime event and then group the bloodstain patterns into different categories
- Beyond the naked eye: perform blood enhancement techniques for latent pattern visualisation
- Reconstruct the scene: analyse the blood stain size, shape and distribution patterns in order to reconstruct the sequence of events that led to the bloodshed

### Afternoon **Career Coaching: How to Become a Successful Forensic Scientist**

- Explore the different career paths in forensic science
- Choose your path: undergraduate vs graduate studies
- Start to build your action plan for success
- Your path to success: understanding the key decisions ahead and how to maximise your chances of success
- Subject choices at A-level/IB/university and more
- Securing work experience, designing impactful CVs/resumes and powerful interview techniques
- Coaching from experienced forensic scientists on what you can do now to stand out in the future

5:00pm **Close**

### **DAY 6 – ENTER THE LABORATORY**

10:00am **Start**

Put your forensic knowledge into practice over the next five days as you go behind the scenes in a forensic laboratory and delve into the different specialities in forensic science such as drugs & explosives and forensic odontology. You will also take a closer look at the role a forensic scientist plays in court with respect to the law, and

immerse yourself in a series of interactive activities and simulations from bespoke tours to the exploration of digital forensics.

#### Morning **Behind the Scenes**

Explore the ins and outs of a forensic laboratory and get a first-hand account on what the day-to-day work in a lab entails.

- Learn about the everyday duties performed in a forensic science laboratory
- Meet the laboratory team and explore their roles
- Witness the performance of routine forensic procedures
- Evidence is everywhere: demonstration on digital, fibre and footprint analysis

#### Afternoon **Laboratory Tour**

- Gain a first-hand account on what it is like to work in a forensic laboratory
- Behind the cordon: go on a tour to a leading forensic laboratory
- Witness the fast-paced life of a forensic analyst
- Observe how samples are delivered and processed for examination
- Interact with the laboratory team and ask them your burning questions

5:00pm **Close**

### DAY 7 –FORENSIC SPECIALTIES

10:00am **Start**

#### Morning **Drugs and Explosives**

Explore the fields of drugs & explosives analysis and forensic odontology along with their application and significance in criminal cases.

- Start with a bang: explore the wide field of drugs and explosives analysis
- Visit a drugs and explosives testing facility and shadow forensic analysts
- Examine the process of drug analysis and the technology used for the identification of unknown compounds
- Use state-of-the-art facilities and identify an unknown drug

#### Afternoon **Forensic Odontology**

- Explore the field of forensic odontology and its application in legal investigations
- Examine the use of dental records for the identification of human remains in mass disasters
- Team up with dentists and compare bite marks inflicted on a victim to existing dental records
- Present your findings to leading odontologists and receive live feedback

5:00pm**Close**

## DAY 8 –ENTER THE COURTROOM

10:00am**Start**

### Morning**Crime Scene to Court**

Step into the shoes of an expert witness and compile evidence you have gathered throughout the Summer Experience to build a case for a simulated criminal offence.

- Tour the courtroom and observe the common procedure of lawyers and forensic scientists
- Affidavit: collate existing evidence into a witness statement fit for court
- Take the stand as an expert and present your witness statement to your peers and receive live feedback from leading expert witnesses
- Receive valuable advice from expert forensic scientists who have testified on prominent cases

### Afternoon**Law and Order**

- Take on a case surrounding a family dispute and identify the relevant forensic avenues to pursue
- Examine the evidence and decide what to include in your witness statement
- Justice is served: team up with psychologists to compile an expert testimony to support your claim and undergo cross-examination from opposing lawyers
- Receive live feedback from forensic, psychology and law professionals

5:00pm**Close**

## DAY 9 – FORENSIC SCIENTISTS IN HISTORY & TODAY

10:00am**Start**

### Morning**Enter the True Crime Museum**

- Take a tailored tour through a true crime museum
- Interact with exhibits which feature artifacts belonging to infamous serial killers
- Play a series of interactive games aimed at testing your forensic skills
- Take a walk through a famous English town and discover its true crime history as well as embark on intriguing cases and hidden crime scenes waiting to be solved

### Afternoon**Forensic Students of Today**

- Meet and network with current forensic science students of today
- Gain an insight into undergraduate vs postgraduate entry to forensics
- Discover how a forensic science student spends their free time
- Opportunities to network and get to know your future colleagues

5:00pm **Close**

## DAY 10 –CYBER FORENSICS & PRIVATE NETWORKING EVENT

10:00am **Start**

### Morning **Cyber Forensics**

Delve into digital forensics, the dark web and the hidden world to expose some of forensics best kept secrets.

- Explore the world of digital forensics and cyber attacks
- Examine how technology integrates itself into forensic investigations by taking a closer look at the hidden side of the world wide web
- Beyond the open internet: discover the dark web
- Infiltrate a dark web marketplace and uncover the criminals behind it
- Discover the techniques used to bring down illegal transactions in the cyber-underworld

### Afternoon **Private Networking Event**

- Put your newfound knowledge to the test
- Take part in a private networking session with top drugs and explosives, digital, odontology and analytical forensic scientists
- Have your burning questions answered by those in the know
- Receive valuable advice from experts in the field

5:00pm **Close**

## DAY 11 –CAREERMAX

10:30am **Start**

Over the next five days, you will receive personalised coaching on how to succeed in each of the major milestones on the road to landing your dream job: i) securing a place at a top-tier university ii) excelling in your studies iii) mastering every aspect of the recruitment process and procuring a top job in forensic science post-university. In addition, you will receive inspirational coaching on key employability skills from high-profile figures including politicians and Olympic athletes.

## Morning **Enter CareerMax**

Your future starts now: discover the essential skills needed to thrive in forensic science

- Personal development plan: work with a careers expert in small focus groups to plan the next steps in your journey
- 'Big results require big ambitions': hear from a world-class Olympic athlete on the importance of being a self-starting, ambitious individual in today's increasingly competitive climate
- 'The art of communication is the language of leadership': hear from a high-ranking politician on how best to improve your communication skills and captivate a large audience

## Afternoon **University Applications**

You're in your final year of school and it is time to start thinking about what comes next...

- Inside UCAS: an interactive session with a university admissions expert, with guidance on how to ace your applications and bag your first-choice university
- University and degree choices: making the right decisions to maximise your career potential
- Eye-catching extracurriculars: using extracurricular activities to boost your application
- Personal statement workshop: expert coaching on the art of personal statement writing
- Interview training: a masterclass with senior admissions tutors from top UK universities
- You become the admissions officer: step into the shoes of a university admissions tutor; review a collection of personal statements and interview prospective students for a place at a world-renowned educational institution

5:00pm **Close**

## DAY 12 - ENTER KING'S COLLEGE LONDON

10:30am **Start**

## Morning **Welcome to University!**

Congratulations! You have been accepted into your first-choice university – it's time to start preparing.

- University tour: private tour of a top forensic university led by students, who will guide you through the abundant opportunities available to you there
- Academic lecture: meet academics from the Department of Forensic and Analytical Science, hear about the research they are undertaking in the field and experience a university-style lecture
- Meet the university team: attend an exclusive networking lunch with students, and academics from the Department of Forensic and Analytical Science

## Afternoon **Step into the Shoes of a Student**

- The academic seminar: discuss the contents of the morning lecture in a seminar group led by an academic, reflect on the topics raised with likeminded individuals and begin to generate your initial hypotheses
- The research project: work effectively as part of a team to research and plan for a knock-out group presentation
- The group presentation: present your team's finding to your peers and academics
- The feedback: receive feedback on your presentation and reflect on your team's performance

5:00pm**Close**

## DAY 13 – GRADUATE RECRUITMENT: APPLICATIONS & INTERVIEWS

10:30am**Start**

### Morning**Graduate Applications**

You're in your final year of study and it is time to start thinking about life after university.

- Standout work experience: learn the importance of securing relevant work experience and the impetus it can add to your graduate job applications
- Killer cover letters: crack the code to the perfect cover letter with industry recruitment experts and hear from hiring managers from the forensic industry on what they are looking for in candidate applications
- You become the hiring manager: step into the shoes of a senior hiring manager working at the Metropolitan Police Department as you screen a set of graduate CVs and select which candidates you would like to interview

### Afternoon**Graduate Interviews**

The graduate recruiter was impressed by your knockout application and you have now been invited to interview for the role...

- Interview workshop: receive bespoke public speaking training on how best to articulate yourself during high-pressure, professional situations such as interviews and presentations
- You become the graduate interviewer: interview candidates for a graduate role alongside senior recruitment managers and put them through their paces with a series of challenging scenario-based questions
- Reflection: return to your focus groups and review the goals you set for InvestIN's CareerMax week. What have you achieved so far? What would you like to work on over the final two days? What questions do you need answering?

5:00pm**Close**

## DAY 14 – GRADUATE RECRUITMENT: ASSESSMENT CENTRES

10:30am**Start**

### Morning**Enter the Assessment Centre**

Congratulations! You have nailed the initial interview for a graduate role at the Metropolitan Police and are among the top-ranked candidates invited to the final stage assessment centre.

- Graduate assessments: discover the different types of activities you will be faced with during an assessment centre and the core competencies that recruiters are looking for
- Analytical tests: experience a series of simulated analytical tests that will assess your attention to detail, problem solving and time management skills and receive feedback on your performance
- In tray exercise: tackle a series of challenging in tray exercises and impress your prospective employer with your calm and organised approach to work

#### Afternoon **The Group Exercise**

- The task: receive an exciting group exercise brief, meet your multidisciplinary team (MDT) and establish members' individual strengths and areas of expertise
- Group discussion: master the art of managing discussions during group assessment centre activities as you collaborate with your team and evaluate one another's contributions
- Key skills: manage your time effectively and wow the assessors with your outstanding approach to teamwork and leadership
- The assessment interview: keep a cool head as you tackle a series of challenging group interview questions and impress your prospective employer with your responses

5:00pm **Close**

### DAY 15 – PERSONAL DEVELOPMENT PLAN: YOUR NEXT STEPS

10:30am **Start**

#### Morning **Personal Development Plan**

- Personalised feedback: receive a bespoke summary of your performance during the day 14 assessment centre, including your strengths and areas for development
- Group reflection: return to your focus groups and reflect on what you have achieved throughout InvestIN's CareerMax week
- Personal development plan: work with a recruitment expert to establish your next steps and create your very own personal development plan
- Farewell speech: a review of what you have gained from the Summer Experience, with closing remarks from the Programme Director

1:00pm **Close**

\*exact programme subject to change without notice