

# The Vision of the Academic Enhancement Programme

## The challenge for education of today

Our vision, is to provide young minds with a vision of tomorrow, today. To broaden their context so they are inspired to learn about their opportunities in the future.

We know that many of tomorrow's jobs will lie in science and new technologies. We have three programmes which give a window on this future, a method to allow teachers and educators to prepare young minds for a very different world.

## How do we ready our young minds?

The Institute for the Future estimates that 85% of the jobs that will exist in 2030 haven't been invented yet. Education is now in uncharted waters, never in history have we had to train, educate and provide skills for young minds when we have little idea what they will be doing. Nothing is sacred, for example, it's predicted that accountancy in its current form will no longer exist in 10 years as machine learning renders humans mere box tickers versus number crunchers. Becoming a doctor, was always a pathway for our youngest and brightest, and yet Fortune magazine states that 80% of Doctors will be replaced by computers which will diagnose people's illnesses by reading their vital signs in a home environment. So, the first step is to help them understand how tomorrow's jobs/employment market will be different from today.



## Training people for tomorrow, today

Statistically we know that it's the quality and quantity of our relationships that make us happy. We know resilience is a key indicator of lifetime success. You've got to be constantly adaptive to be resilient, so how do we train people to be adaptive? We believe that there's a chain of events. Inspiration drives curiosity, curiosity drives a desire for change and change drives adaptation. The spark for this chain reaction, lies in inspiration.



## DAY 1

### Inspiration Injection

The students will be met at the airport and taken to the school in Portsmouth by private coach. Here they'll attend an induction program with an 'inspiration injection' a fast tour of the 'future today', things you wouldn't believe exist. They will be introduced to the staff and taken to their accommodation.

## DAY 2

Students will go through two days of workshops which will centre on them building a robot. This is immersion in the future today. This industry is estimated to be worth 82.7 billion by 2020 and that's just the beginning, we haven't even begun to see robots in our everyday life yet on a mass scale. To support them in this endeavour we will run a special workshop on technical scientific English, specifically using the vocabulary they will need to learn. Hotel in Portsmouth

Robotics - 1

## DAY 3

### Robotics - 2

On the second day of robotics students will construct a robot using Python programming language at our facility in Portsmouth. We work in partnership with a leading robotics industry provider and they will be present with us at the workshop. The outcome of the day will be that each student gets a robot which moves according to their instructions. In addition, we talk about the future of robotics so they can see this as a real future opportunity rather than a 'novelty' which won't happen soon. Hotel in Portsmouth

## DAY 4

### AI / Block chain

Following on from the robotics immersion we move into the future of AI and block chain technology. Firstly, we open the young minds to the amazing, but little known, facts about AI today. For example, Facebook AI computers invented and started talking in their own language to each other. We'll explore what the future holds for AI so they can see their potential place in it. We then move onto block chain technology, which is about cryptocurrencies and more. We help students understand the opportunities in the future in what might be called 'cyber-finance'. Hotel in Portsmouth

## DAY 5

Oxford is known as the 'dreaming spires' and the reality delivers. Students will be inspired by the sheer depth and breadth of minds that Oxford has produced such as Stephen Hawking and Sir Tim Lee. They'll get an inside look at how the ancient Colleges work and what's required to get a place. Hotel in Oxford

Oxford University

## DAY 6

### Cambridge University

Cambridge is Internationally renowned for it's cutting edge technology. We'll visit Innovation Centres. We'll learn about the Great Minds who have been in Cambridge such as Newton, Alan Turing and visit Museums such as the Centre for computing History. Hotel in London.

## DAY 7

### London Tour

The final day is spent by visiting inspiring sites in London, both the known and the less known. The Science museum is a whistle stop tour of mankind's scientific knowledge. We will focus on going to the Winton Gallery which shows the role that Mathematics has played in developing the world. Hotel in London

## DAY 8

Prepare students for the flight home.





**Places of visit during the programme**



**Innovation - Cambridge**



**Mary Rose - Portsmouth**



**Design Museum - London**



**Christ Church - University of Oxford**



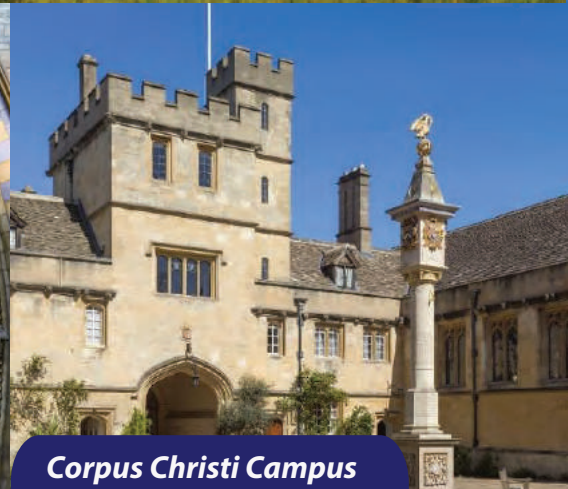
**Brasenose Campus - University of Oxford**



**Kings College Campus - University of Cambridge**



**Natural History Museum**



**Corpus Christi Campus  
University of Oxford**

**SPINNAKER**  
SCHOOL OF ENGLISH



Accredited by the  
**BRITISH COUNCIL**  
for the teaching  
of English in the UK

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**The Package**  
Three meals per day for the  
duration of the stay  
Accommodation for the entire trip  
All transportation in the UK  
Return flights and travel insurance  
Visa application fees  
Certification of completion

**£2575**

*Minimum Cohort Size:  
20 students and 1 adult from the group origin school*

**Programme Coordinated by**

Dr Sandy Willkinson  
Professor Brendon Noble  
Professor John White  
Jake Pearce

**Educating the *Leaders* of Tomorrow**

Global Citizenship  
Thinking Skills  
Self-direction

**SCHOLARSHIPS AVAILABLE**

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