



ST EDWARDS

UNIVERSITIES AND STEM

MAKING A COMPETITIVE APPLICATION



WORK EXPERIENCE

- Enhances understanding of industry
- Highly competitive, recipients are resilient under pressure
- A chance to reflect

“I’m interested in work experience only to the extent that the applicant has something intellectually interesting to say about it”

Prof. Mary Beard, Guardian

[Work Experience & Internships](#)

Work Experience & Internships

Summer Work Experience for AS students (2024 In2science summer programme) - deadline 3rd March, 2024

The In2science summer programme is a free summer programme for Year 12 (or equivalent) students, consisting of an in-person work experience placement, live online workshops, competitions and events. Places are available to 17 year old (AS/Year 12) students only, with the work experience taking place during July - August 2024 for a duration of two weeks. The deadline for applications is 3rd March 2024.

Brian Duff Undergraduate Summer Research Studentships - deadline 2024 to be confirmed

Applicants should be undergraduates in the department of Physics and Astronomy or UCL Natural Sciences undergraduates with Physics as main stream. [The internships are for P&A UGs in Yr 2 (BSc or MSci) and Yr 3 (MSci

RAL Placement details

2024

Explore the fantastic range of projects that span many different areas within RAL. Please carefully read all project descriptions before selecting your preferred projects on the application form. You can apply for up to three projects and will be asked to rank your choices.

Placements are split into the following disciplines:

- **Computing** includes software engineering and development, programming and IT.
- **Engineering** includes mechanical, electronic and electrical engineering.
- **Science**
 - Practical: We run many large experiments at our labs and each has many practical aspects covering all areas of the process from prepping experiments to analysing data.
 - Theoretical: Our scientists develop new theories and hypotheses to explain natural phenomenon. STFC supports theoretical research in particle physics, particle cosmology, theoretical astronomy and cosmology, plasma and areas related or relevant to these.
- **Other** refers to non-STEM placements such as in the Library and the Communications and Business departments and working on Social Media projects

Science Placements

► SCI-01 Central Laser Facility Experiment support

► SCI-02 Crystallography at ISIS Neutron and Muon Source

► SCI-03 ISIS Detector Systems Group

► SCI-04 Materials Testing for Technology

► SCI-05 Molecular Spectroscopy at the ISIS Neutron and Muon Source: Project 1

► SCI-06 Molecular Spectroscopy at the ISIS Neutron and Muon Source: Project 2
















► SCI-07 Molecular Spectroscopy at the ISIS Neutron and Muon Source: Project 3

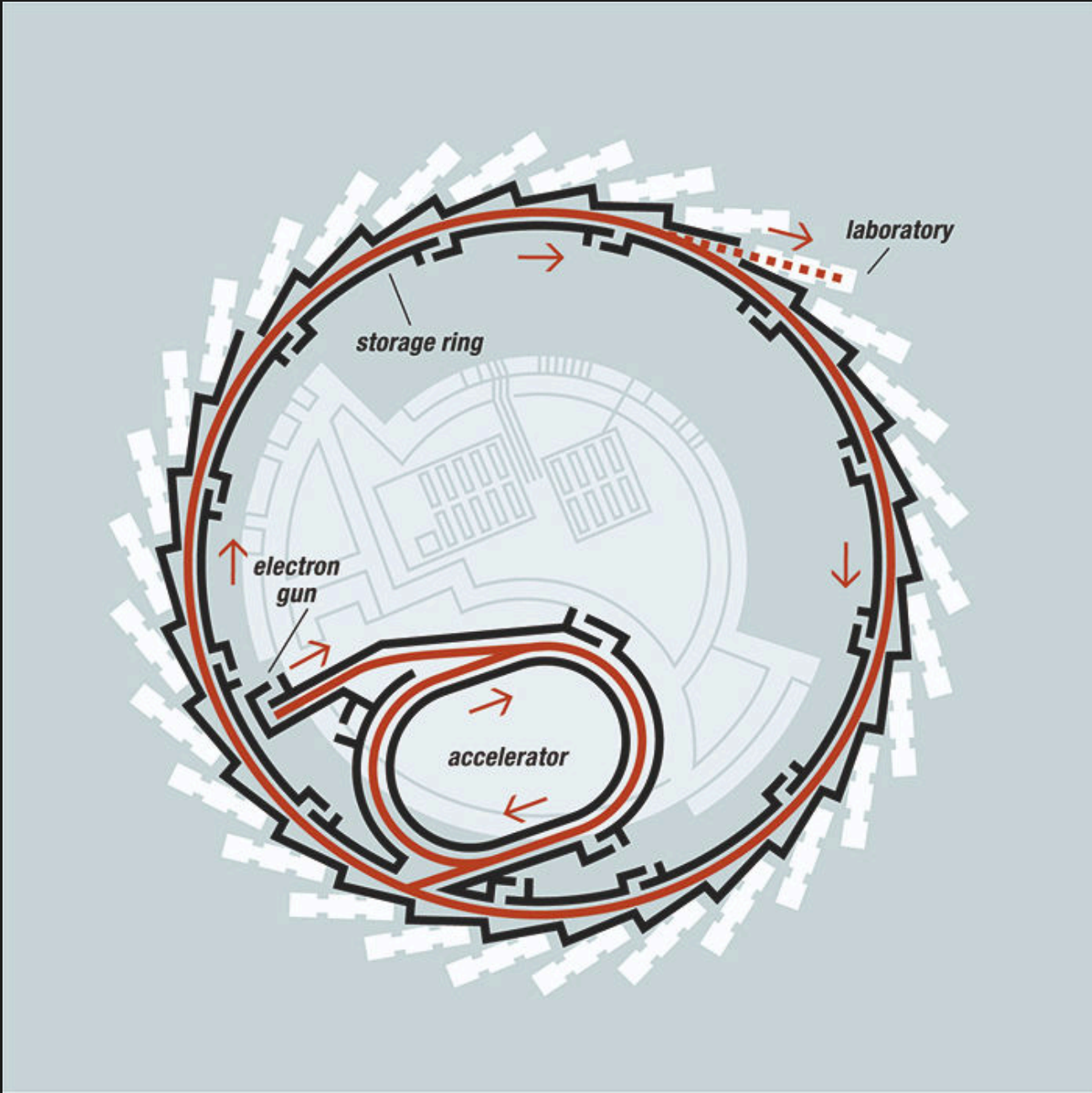
► SCI-08 Particle Physics detectors (LHCb)

► SCI-09 Particle Physics Electronics (CMS)

► SCI-10 Particle Physics Project Management

► SCI-11 Particle Physics Simulation and Computing Analysis (ATLAS)

Atomic Resolution Electron Microscopy		+
Build an Interactive, Informative Web Application		+
Chemistry, Robotics and Crystallography for Automating Drug-Discovery		+
Control Systems - FGPAs		+
Controlling and Testing Hardware with Software		+
Create a Windows Application to Control an LCD Screen		+
Crystal Structure of an Enzyme		+
Crystallisation		+
Detector Calibration		+
Electronics		+
Exploring X-ray Absorption and Scattering Spectra Using Python		+
Health Physics		+
Imaging the Micro-World with Electron Microscopy		+
In House Legal - Commercial Law		+
Local Structure of Functional Materials		+



I want to gain work experience to boost my CV

Work Experience Programmes

EXPLORE VIRTUAL PROGRAMMES FROM THESE ORGANISATIONS 

AIRBUS

 BARCLAYS

 **vodafone**

FUJITSU

Find programmes

Learn more

I want to try a university course before I apply

Subject Spotlights

EXPLORE SUBJECT SPOTLIGHTS FROM THESE UNIVERSITIES 

 UNIVERSITY OF
SURREY

 UNIVERSITY OF
LEICESTER

 Middlesex
University
London

The
University of
Law

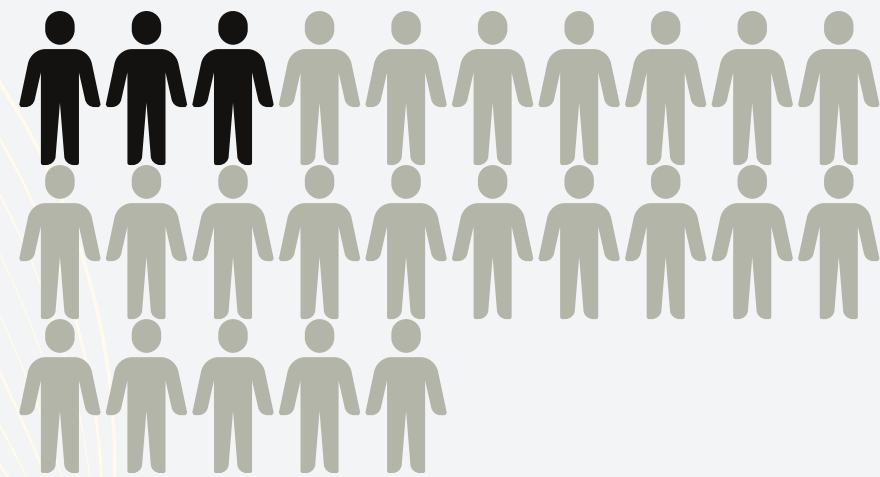
Find Subject Spotlights

Learn more

ENTRANCE EXAMS

- PAT (25% in top 100 from UK)
- ENGAA
- BPHO

12%



PRACTICE
MAKES PERFECT

PAT past papers



MOOCS

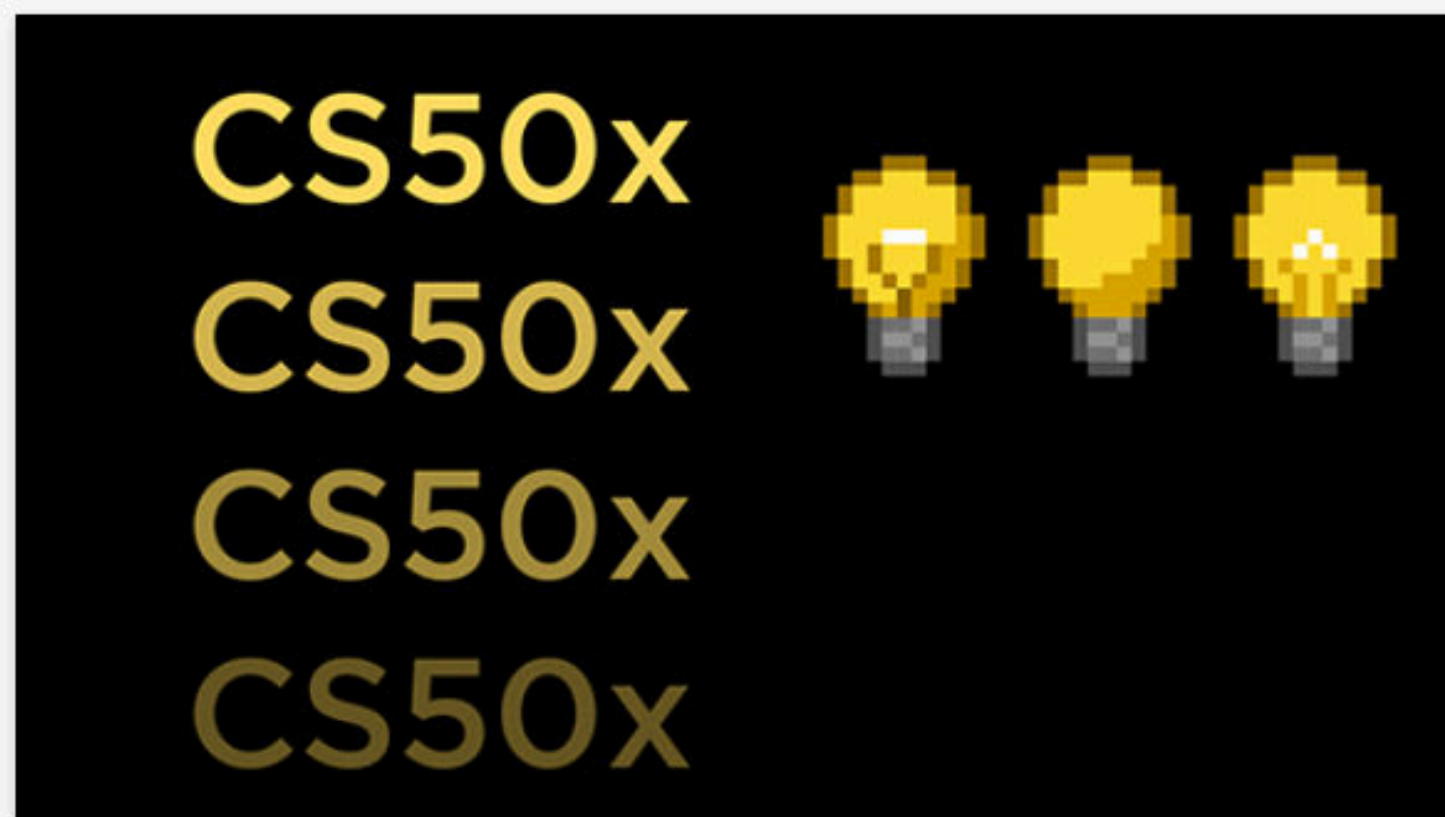
- Python
- MINERVA
- MatLab


[VIEW ALL COURSES](#)

HARVARD
UNIVERSITY



9 results



 PROGRAMMING

 ONLINE

CS50: Introduction to Computer Science

An introduction to the intellectual enterprises of computer science and the art of programming.

FREE*

11 WEEKS LONG

AVAILABLE NOW



 COMPUTER SCIENCE

 ONLINE

CS50's Introduction to Artificial Intelligence with Python

Learn to use machine learning in Python in this introductory course on artificial intelligence.

FREE*

7 WEEKS LONG

AVAILABLE NOW



International Particle
Physics Outreach Group

INTERNATIONAL



MASTERCLASSES

hands on particle physics

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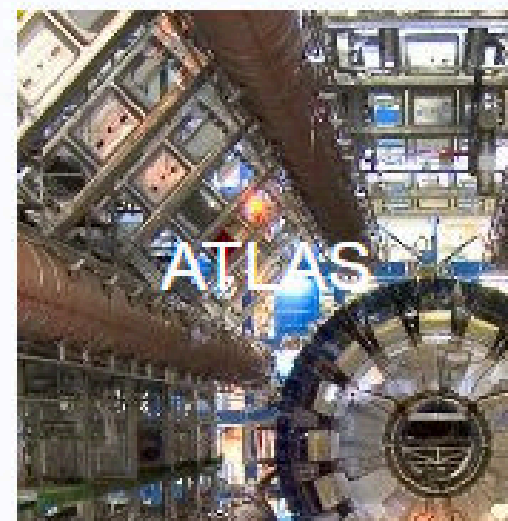
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International Masterclasses

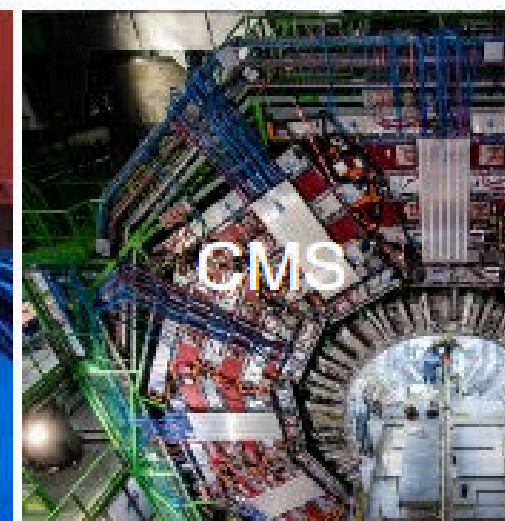
20th International Masterclasses 2024



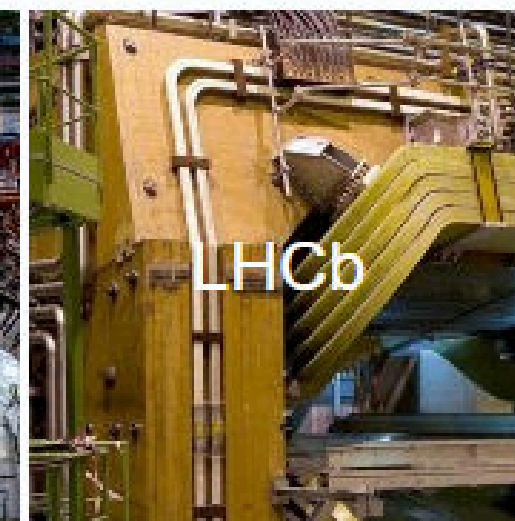
ATLAS



ALICE



CMS



LHCb



BELLE II



MINERvA



Particle
Therapy

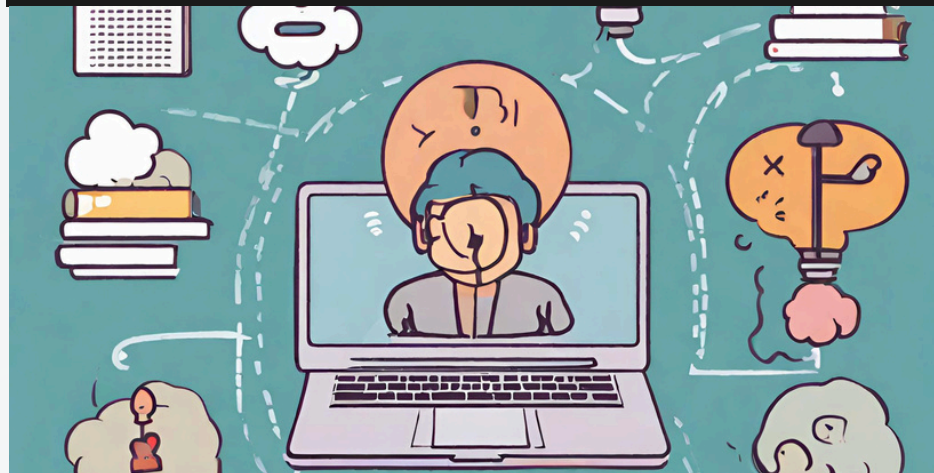


Pierre Auger

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LECTURES

Masterclasses



- Application based
- Apply on university websites
- Teach highly specific content but knowledge is accessible to a sixth form skill set

- Completely free
- Aimed at members of the public
- Enables exploration of recent scientific research

Public Lectures

Hintze Centre for Astrophysical
Surveys

Research group




MINERvA Neutrino Masterclass Student Start Page

Small URL for this page: <http://tinyurl.com/minervastudent> 

Step 0: To start the MINERvA masterclass measurement, you need the following information:

- Name of your institute (usually the city)
- Date in the Fermilab time zone (U.S. Central Time)
- Data Group letter
- Data mergedTuple number






Here are some useful resources to help you:

- **Instructional Screencast** 
- **Start-up Slides**
- **Cheat Sheet**

Step 1: Find your Institute, Data Group, and Spreadsheet in this table:

Step 2: Open your Data Group by choosing the letter and find your mergedTuple by its number.

Data Assignments 2024:

Date/time (U.S. Central Time)	Institute (Data Group)	Institute (Data Group)	Spreadsheet
Fri 08 Mar/15:00	Lead (B)	Vermillion (A)	FNAL-MINERvA-2024-03-08 
Sat 16 Mar/14:00	Duluth (C)	Mayaguez (F)	FNAL-MINERvA-03-16a 
Sat 16 Mar/17:00	Irvine (E)		FNAL-MINERvA-03-16b 
Fri 22 Mar/09:00 & 10:00	Constantine (D, G)	Durham, UK (A, B, C)	FNAL-MINERvA-2024-03-22 
Mon 25 Mar/09:00	Valencia (A, B, F, G)		FNAL-MINERvA-2024-03-25 

VALUES WHICH MATTER

INNOVATION

Creating your own product
Writing your own software
Conducting your own research
Evaluating the research of others (EPQ)

TEAMWORK

Group work
Sport
CREST awards

IMPACT

Appreciation of real world problems
Science for social change
Engineering for the betterment of humanity
World-reaching vision

