

Application for Work Experience at RAL

*Required

In which areas are you most interested?

Rank in order of preference. (Please select at least two – mark as 1st, 2nd and 3rd choice)

Computing	Second Choice
Engineering	Third Choice
Science – theoretical	First Choice
Science - practical	

I have a specific interest in.....*

Mathematics, Particle Physics, Computing

and I would particularly like to do.....*

Theoretical physics, computer programming, any complex mathematics

Why do you want to do work experience at RAL, and what do you hope to gain from your placement? * Please write at least 50 words.

I have a huge passion for the sciences, particularly maths, physics and also computing. I am always keen to make the most of every opportunity I have to learn more about these subjects. As such, I feel that this amazing work experience opportunity is perfectly suited to my interests, and am sure that I would find it immensely stimulating. I hope to gain a great insight into various fields of physics, as well as the role of computing within the subject. I also feel that the work experience would give me a deeper understanding of how research in science is undertaken and carried out. In my opinion, this opportunity will prove to be invaluable in helping me to make choices as to potential plans for the future (i.e., university courses and career plans).

Do you have any computer knowledge or skills that might be of use? Which software packages are you familiar with? Do you have you any programming experience?*

I am currently able to program in Python, Javascript, PHP, and C#. I am also comfortable using CAD/CAM software, and am able to use SolidWorks and Circuit Wizard. I can create websites, use spreadsheet and database software, and am overall very confident using IT.

What are your interests (both in and out of school)?*

I have great interest in maths, physics and also computing. Since September 2013, I have been involved in the UKMT senior mentoring scheme, solving difficult mathematics problems. Additionally, I completed my maths GCSE and A Level several years early and I have been very successful in UKMT Olympiads, even being invited to a summer school at Oxford University for the national top 40 scorers. I also enjoy reading about science; as well as keeping up to date with the latest technology and developments, I like to read and learn about further topics beyond my current A Level course, and find doing so very stimulating. I enjoy solving interesting computing problems - for example some of those from the online "Project Euler" site. In general, I enjoy reading about interesting applications of these subjects - I have found "Data Genetics" to be a particularly interesting online blog. Outside of school, I enjoy playing sport, particularly football and cricket and have been a member of the school cricket and football team as well as teams outside of school. I also enjoy music, and play the violin, keyboard, and three other Indian instruments. I play violin as part of an Indian music group with whom I was invited to play at 10 Downing Street at a reception attended by David Cameron.