

# Nuffield Science Bursaries

SCHOOLS  
& COLLEGES

*"The whole experience  
was absolutely amazing.  
I learnt huge amounts  
and enjoyed every second!"*



*Aarthy Ravishankar - Department of Medicine,  
University of Manchester*



*Oliver Hawkes - School of Applied Sciences,  
University of Northampton*



*Emma Moore - Fisheries  
Research Services, Aberdeen*

## Inspiring experiences Inspiring science Inspiring you

Be inspired by science in action  
[www.nuffieldfoundation.org/scb](http://www.nuffieldfoundation.org/scb)

*"During my placement  
I discovered just how  
exciting, rewarding  
and dynamic the working  
world of science can be."*

One of two science bursary schemes for young scientists from The Nuffield Foundation

# Real projects...

- about science, technology, engineering and maths
- with practising scientists, technologists, engineers and mathematicians
- that contribute to research and development
- and solve important problems.

## Experience science first hand

Nuffield Bursaries offer up to 1,000 funded places a year in science, technology, engineering and maths (STEM), so that students across the UK can get an insight into the world of STEM research and development.

Contact your **Nuffield Co-ordinator** (see pages 10-11) to register your interest and choose one of two ways to set up a placement:

- arrange your own project placement with the help of teachers and organisations
- apply for a project placement that has already been set up.

All students in the first year of an advanced or higher-level STEM course are eligible to apply.

Unlike work experience schemes, students carry out projects that are well defined from the start, have an outcome that is achievable within the time available and which will make a contribution to the work of the host organisation.



*“Having such a brilliant mentor and supportive team at my placement really put me at ease and made me more confident.”*

Nartani Nithianandsavian,  
Henrietta Barnett School, NIMR

1. Philip Bishop, Barclay School, British Schools' Exploring Society
2. Katherine Farquhar, Carnoustie High School, Division of Civil Engineering, University of Dundee
3. Kate Richards, Newent Community School, GlaxoSmithKline
4. Charlotte Mykura, Esher College and Alim Thawer, Gordon's School on their placement at the School of Biological Sciences, Royal Holloway, University of London with their project supervisor Professor Alan Gange.

*"My bursary placement has given me an appreciation of how science works in the real-world and how integral it is to our everyday lives."*



# Get involved...

- as a student
- as a project provider
- as a teacher.

## As a student

### > Join a project

If you're a student in the first year of an advanced or higher-level science, technology, engineering or maths (STEM) course, you could join a project for four to six weeks in an area that interests you.

You'll receive a bursary of £80 a week to help you make the most of your experience. It will give you an insight into the world of STEM research and development and be highly valued by future employees and admissions tutors at centres of higher education.

Working as part of a team, you'll take the initiative on projects that make a difference, write a project report and receive a certificate of achievement.

You will also have opportunities to share and communicate your experiences more widely through celebration events and Scientists' and Engineers' fairs.

Demand for bursaries will be high and we advise you to apply early.

*"The students are usually very capable and provide a great deal of help. It is always fulfilling to introduce young people to some real scientific work."*

Dr Vasilis Gegas, John Innes Centre

## As a project provider

### > Host a project

We're always looking for new partners. Hosts provide one or more projects lasting between four to six weeks, during July and/or August.

Join an initiative which helps young people contribute to your organisation through real science, technology, engineering and maths project work and fresh thinking. Demonstrate your commitment to STEM education, develop skills through mentoring a young student, and spread knowledge of your organisation's activities.

If you're interested in becoming a project provider, please contact your nearest Nuffield Co-ordinator for more details.





## As a teacher

### > Support a project

If you're a teacher you can get behind our scheme, inspire students to consider higher education and careers in STEM, and develop contacts with working scientists, technologists, engineers and mathematicians in industry and research institutions.

Students benefit from the challenge of working with scientists and technologists. They gain an insight into current research and development, and get first-hand experience of STEM in a working environment.



*"Very worthwhile and a terrific opportunity for our students to develop their skills."*

Mrs R Moore, Head of Science,  
Ballyclare High School



1. Eryn Hooper, Exeter College, School of Biosciences, University of Exeter
2. Iain Nicol and Robert Smith, Anderson High School, The Royal Society for the Protection of Birds
3. Dean Barber, William Bradford Community College, Department of Physics and Astronomy, University of Leicester
4. Vijay Narbad, Wymondham College, Institute of Food Research
5. Stephen Eddison, Hills Road Sixth Form College, The Babraham Research Institute
6. Michael Aspinall, Neston High School and Emma Taylor, Sir John Deane's College, Unilever Research

# Celebrating success!

- 900 students in placements last year
- supported by project providers in 260 organisations
- with projects covering all aspects of science, technology, engineering and maths.

Each year Nuffield students are given the chance to showcase their work at celebration events held all over the UK. Projects are presented to industry organisations, research institutions, universities and colleges, parents, teachers and fellow students.

The success of Nuffield students at the BA (British Association for the Advancement of Science) CREST Science Fair also continues. This year, Nuffield students won 10 prizes at the Young Scientists and Engineers Fair, including Best CREST Science Project at Gold Level, the EU Contest for Young Scientists and the Royal Society International Expedition Prize.



Elisabeth Muller

## > Elisabeth Muller

Elisabeth, a 17 year old student from Bedford High School undertook a 4 week placement at the Open University in Milton Keynes working on a project entitled 'From microcosm to magma oceans: a lunar meteorite perspective'. After working hard on her project, Elisabeth was awarded a Gold CREST award and went on to take part in the 2008 Young Scientists' and Engineers' Fair.

At the Fair, Elisabeth won the prestigious award of EU Contest for Young Scientists, and the Royal Society International Expedition Prize. Following on from this, Elisabeth has secured a place on a once-in-a-lifetime voyage on a research ship from New Zealand to the sub-Antarctic islands.

After the Young Scientists' and Engineers' Fair, Elisabeth said: 'I was shell-shocked when I heard my name called – I actually tripped down the stairs! I plan to study Geology when I go to university in September and I'm particularly excited about the trip to the sub-Antarctic because as a geologist I love fieldwork. I can't wait!'

Elisabeth has since gone on to win first prize at the EU Contest for Young Scientists and received €700 towards her future studies and will be attending the prestigious Stockholm International Youth Science Seminar.



Alex White

### > Alex White

Alex White, from the King's School Chester has also had international success – he recently won two chemistry prizes at the Intel International Science and Engineering Fair (ISEF) in Atlanta, USA.

Alex won his place to attend the international event at the UK Young Scientists' and Engineers' Fair organised by the BA in March 2008 for his Nuffield bursary project analysing the synthesis and catalytic properties of a novel group of materials. He found that they have the potential to be used as catalysts in safer, more environmentally friendly alternatives to chemical reactions widely used in the manufacture of pharmaceuticals.

His work was of such high quality that his supervisor, Dr Andrew Fogg, has since presented Alex's research at a chemistry symposium in Mexico.

Intel ISEF is the world's largest pre-college science competition and Alex was competing among over 1,500 students from more than 40 nations across the globe. His success in winning 2nd place in the American Chemical Society Prize, and fourth overall in the main ceremony Chemistry Awards is therefore even more impressive. Alex has taken home a prize of \$3500.

↑  
*"I am overjoyed at winning such a prestigious prize. I hope that my achievements can inspire more young people to pursue a career in science."*

Speaking of his success, Alex said: 'The bursary was invaluable to me – it was brilliant to be able to get into a lab and work with PhD students, using techniques and equipment you don't have access to at school. It reinforced that chemistry is the area I want to work in, and I'm really looking forward to it!'

# Partnerships...

The following partners have provided projects & sponsorship.  
We are especially grateful to the Wellcome Trust & RCUK  
who both fund 100 bursaries a year.

3M Healthcare	Centre for Environment, Fisheries & Aquaculture Science	Hatter Institute and Centre for Cardiology	Marine Biological Association of the UK
Aberystwyth University	Charing Cross Hospital	Hawk Conservancy Trust	Mast Carbon Technology Ltd
Advanced Pest Solutions	Cherry Pipes Ltd	Headway Surrey Head Injuries Association Ltd	MBDA
AES Kilroot Power Limited	Cherry Polymers	Health Protection Agency	Medical Research Council, Harwell
Agri Food and Biosciences Institute (AFBI)	Clatterbridge Cancer Research Trust	Heart of Birmingham Teaching Primary Care Trust	Middlesbrough Council
Agriculture & Food Science Centre	Clinical Research Centre for Health Professions	Heartlands Hospital, Birmingham	Miller UK Ltd
Aimhigher Norfolk	Conquest Hospital, St Leonards-on-Sea	Heriot-Watt University	Moreduin Research Institute
Air Products Plc	Coventry University	HFL Ltd	Mott Macdonald Ltd
Alder Hey Children's Hospital	Cranfield University	Ideal-Eyes Sight Care Ltd	Mouchel
AngliaDNA	Crown Packaging UK plc	Imperial College London	MRC Clinical Sciences Centre
Arden Cancer Centre, Coventry	Cummins Ltd	Innova BioSciences	MRC Cognition and Brain Sciences Unit
ARM Ltd	CXR Biosciences Ltd	Institute of Cancer Studies, Birmingham	Mullard Space Science Laboratory
Armagh Observatory	Dartmoor Zoological Park	Institute of Cancer Research, Surrey	Nanotechnology and Integrated BioEngineering Centre
Aston University	Davy Process Technology Ltd	Institute of Food Research	Napier University
Astrazeneca R and D, Chamwood	De Montfort University	Institute of Nephrology	Newbridge Pharmacy
Babraham Institute	Denne Construction	Institute of Physics Scotland	Newcastle College
BAE Systems, Dorchester	Duco Ltd	ITT Jabsco	Newry & Mourne H&SS Trust
Barts and The London, School of Medicine and Dentistry	Durham University	Jacobs Engineering Group Inc	NIMR
Behavioural and Clinical Neuroscience Institute	EADS Astrium	James Walker & Co Ltd	Norfolk & Norwich University Hospital
Belfast City Hospital	East Lancashire Primary Care Trust	John Innes Centre	North Atlantic Fisheries College
Bentley Motors Ltd	Eli Lilly and Company	John Thompson & Sons Ltd	North East Wales Institute of Higher Education
Bio Products Laboratory	ExxonMobil	Jurassic Coast World Heritage Team	Northampton General Hospital
Birmingham East and North Primary Care Trust	Feedwater Ltd	Kent & Canterbury Hospital	Nottingham Trent University
Black & Veatch	Fisheries Research Services, Aberdeen	Kent & Sussex Railway	NovaBiotics Ltd
Blackburn Chemicals Ltd	Foster Wheeler Energy Ltd	Kent & Sussex Hospital	Omicron NanoTechnology
BNS Nuclear Services	Frenchay Hospital	King's College London	Operation Wallacea
Bombardier Transportation UK Ltd	G E Healthcare	Lancashire Care NHS Trust	Optimal
Boots	Givaudan UK Ltd	Leicester Royal Infirmary	Oxford Brookes University
Bournemouth University	Glasgow Caledonian University	Leverhulme Centre for Human Evolutionary Studies	Pall Europe Ltd
BPL	GlaxoSmithKline, Harlow, Stevenage, Ware, Tonbridge, Coleford	Lincoln County Hospital	Paradise Park
Brighton Sealife Centre	Glenfield Hospital	Liverpool Heart and Chest Hospital NHS Trust	Peninsula Medical School
British Geological Survey	Gray Institute for Radiation Oncology & Biology	Liverpool John Moores University	Pfizer Global Research and Development
British PreCast	Green Biologics Ltd	Loughborough University	Photonics Academy
British Schools Exploring Society	Hammersmith Hospital	MacArthur Barston & Gibbs	Plymouth Hospitals
Brunel University	Harefield Hospital	Macclesfield District General Hospital	Port Lymgne Zoo
Cancer Research UK Institute for Cancer Studies	Harper Adams University College	Manchester Royal Infirmary	Postural Health Ltd
Cardiff University	Hart Biologicals Limited		Product Development Centre
Cardio Analytics Ltd			Project Abroad
Centre for Ecology and Hydrology, Wareham			

QinetiQ, Malvern	Schering-Plough Corporation	The Royal Institution	University of Liverpool
Queen Elizabeth's Hospital	Scottish Agricultural College	Trafford General Hospital	University of Manchester
Queen Mary, University of London	Scottish Association for Marine Science	Twycross Zoo	University of Northampton
Queen Mary's Children's Hospital	ScottishPower	Tyne & Wear Museums	University of Nottingham
Queens University Belfast	Seagate Technology	UKAEA Fusion, Culham	University of Oxford
Quotient BioResearch Ltd	SELEX Galileo	Ulster Hospital	University of Reading
Raison Foster Associates	Shell Global Solutions UK	Unilever R & D	University of Salford
Reading Hospital and Medical Center	SIGMA - Centre for Excellence in Mathematics & Statistics Support	Unipart	University of Sheffield
Riseholme College	Smiths Detection	United Utilities	University of Southampton
Roads Service Consultancy	Solihull Hospital	University of Leicester	University of St Andrews
Rolls Royce	South Tees Hospitals NHS Trust	University College London	University of Stirling
Roslin Institute	South West Thames Institute for Renal Research	University Hospitals Coventry and Warwickshire NHS Trust	University of Strathclyde
Rothamsted Research	Springfield Dental Practice	University of Aberdeen	University of Surrey
Royal Berkshire NHS Foundation Trust	St Helier Hospital	University of Abertay	University of Sussex
Royal Botanic Gardens, Kew, Edinburgh	St Thomas' Hospital	University of Bath	University of the West of Scotland
Royal Free & University College Medical School	St Richard's Hospital	University of Birmingham	University of Ulster
Royal Holloway, University of London	Stoke Mandeville Hospital	University of Brighton	University of Warwick
Royal London Hospital	Surrey Ranger Service	University of Bristol	University of York
Royal Maternity Hospital	Surrey Wildlife Trust	University of Cambridge	Vodafone
Royal Society for the Protection of Birds	Syngenta	University of Central Lancashire	Wakehurst Place
Royal United Hospital Bath NHS Trust	Synthomer Ltd	University of Dundee	Walsall Manor Hospital
Royal Veterinary College	St Helier Hospital	University of East Anglia	Walsgrave Hospital
Royal Victoria Hospital, Belfast	Tam O'Shanter Urban Farm	University of East London	Weatherall Institute of Molecular Medicine
Royal Zoological Society of Scotland	Technical Fibre Products Ltd	University of Edinburgh	Whittington Hospital
Rutherford Appleton Laboratory	The Babraham Institute	University of Exeter	Women's Business Development Agency Ltd
	The National Trust, Tyne and Wear	University of Glasgow	Worthing Hospital
	The Natural History Museum	University of Hertfordshire	Xerox Ltd
	The Open University	University of Hull	Yeovil District Hospital
	The Robert Gordon University	University of Lancaster	
		University of Leeds	
		University of Leicester	

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# Nuffield Co-ordinators

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Your Nuffield Co-ordinator is:

If you have difficulty contacting your Co-ordinator, please check the website for latest contact details.

[www.nuffieldfoundation.org/scb](http://www.nuffieldfoundation.org/scb)

# Find out more...

Nuffield Science Bursaries for schools & colleges inspire students across the UK with 1,000 funded places a year.



Contact your Nuffield Co-ordinator for details on how to apply. For more information see: [www.nuffieldfoundation.org/scb](http://www.nuffieldfoundation.org/scb)



Lord Nuffield

## About us

“Committed to the careers of young scientists through curriculum development and practical schemes”

The Nuffield Foundation is an independent charitable trust established in 1943 by William Morris (Lord Nuffield) the founder of Morris Motors.

Our aim is to fund research, development and practical experiment in education, science, social science and social policy.

To find out more about our two science bursary schemes for undergraduates and for schools and colleges, please visit our website at [www.nuffieldfoundation.org/urb](http://www.nuffieldfoundation.org/urb)



Nuffield Undergraduate Research Bursaries offer up to 400 funded places a year, helping undergraduates across the UK to gain an insight into scientific research careers. Research projects last between 6-8 weeks throughout the summer months, at universities and research institutes, and in a wide range of scientific disciplines. Once you are at university you might be interested in applying for an Undergraduate Research Bursary. For more details please see our website: [www.nuffieldfoundation.org/nsb](http://www.nuffieldfoundation.org/nsb)