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Introduction

About this booklet
A work placement is the ideal way to gain general work experience and test out what it’s like working in a certain environment. But organising a placement requires a good deal of initiative and can be highly competitive. That’s why we have produced this guide.

Who is this booklet for?
This booklet is designed for students who are studying for a physics degree and have an interest in pursuing a physics or science-based career.

How to use this booklet
On pp12–38 of this booklet there is a comprehensive list of companies and university research departments that have an active interest in taking on students for work placements, over the summer holidays or at other times.

There is a guide on how to set up a work placement on p2 and tips on making your placement a success on p3. Also included are a range of case studies so that you can see how other physics students have fared and get a taste of what your work placement might be like on a personal level.

Please bear in mind that the list of employers is not exhaustive and it’s a good idea to make additional contact with local employers and organisations that particularly interest you.

Good luck to all Institute of Physics members in your search for a work placement.
Introduction

How to find the right work placement
Finding a work placement can seem like quite a challenge. After all, this is your first step into the world of work and phoning a company up out of the blue and asking if it will take you on can be daunting. But bear in mind that many employers are keen to take on enthusiastic, science-minded students. Not only will you be making a contribution to its workforce, you may also go on to become a useful future employee. So follow these simple steps and you will be well on your way to finding the perfect work placement.

Start early
Competition for the most prestigious work placements can be fierce, so it’s no use leaving your search until after the summer exams are over. You need to start looking at the beginning of the year because many companies will want an approach in the spring.

Decide what you want
Take some time to analyse what you want to get out of your work placement. Think about the kinds of companies that you would ideally like to work for in the future. Also consider practical matters, such as the length of work placement you want and the distance you are willing to travel.

Consult our list of employers
This booklet contains a comprehensive list of companies that have expressed an interest in taking on physics students for work placements. Read it through thoroughly and make a note of the employers that appeal. If you’re not sure whether a company is right for you, include it on your list anyway – it’s better to have too many prospects than too few.

Do your own research
Think about the major employers in your area and the ones that you would like to work for. You have nothing to lose by making an application, so think big. You should also make a list of any personal contacts you might have – aunts, uncles, cousins or family friends who work in the field you’re interested in and might be able to provide an introduction.

Make contact
If you are applying to a company listed in this book, you’ll have details of exactly which person or department to contact. Be polite and patient and have a pen and paper to hand to make notes about the application process for your placement. If you’re contacting a company that’s not listed here, it’s best to ask for the HR or recruitment department as a first port of call.
Introduction

Tips on making the most of your work placement

Work experience can be a mixed bag. While many students have tremendously positive and rewarding experiences, others may find that they never get the chance to shine. But wise up to these top tips and you will avoid the biggest pitfalls.

Look the part
You may not be getting paid, but people will expect you to look professional, so try to dress appropriately. Of course, this needn’t mean sweating it out in a pinstripe suit all through a scorching hot August, but denim, sportswear and T-shirts with slogans are best avoided. If in doubt, err on the side of formality.

Be professional
As well as looking the part, you need to behave just as professionally as if you were being paid for your time. Be polite, arrive and leave on time, and show an interest in the workings of the company.

Show willingness...
You might find yourself being asked to do tasks that you find menial or dull. Sadly, this is part and parcel of being at the bottom rung of the employment ladder, so don’t take it personally. Instead, be willing to muck in – you never know what you might learn.

...but have a plan
The person supervising you may well expect you to initiate your own work, so be ready with your own suggestions. Keep a mental list of things that you want to get involved in – sides of the business that you would like to know more about, for example, or projects that you’d like to undertake.

Ask questions
If work experience is about anything, it’s about finding out more about working life. So ask questions about everyday operations, who does what and why systems work in the way they do.

Ask more questions
Try to find out about the people who work at the company. If a specific role interests you, ask the person doing it how they got the job. Find out about the background and skills required.

Request feedback
When your work placement is over, ask for a reference for future employers. If you are feeling brave you could also ask them what they’ve noticed about your own strengths and weaknesses; this is useful information for the future.

Showcase your experience
When you’re updating your CV, think about ways that you can show off your work experience to best advantage, highlighting any tangible achievements, skills developed or lessons learned.

Follow up
Now that you’ve made a personal connection with the company, you are in a strong position to check back in a year or two to see if there are further opportunities for work experience or suitable vacancies. And when you come to look for a job, send off your CV with a covering letter reminding them of the connection.
“During my placement I performed a wide spectrum of activities, from standard testing all the way through to designing and creating my own ideas for features for banknotes.”
Case study 1: Banknote technology

Name: Marcel Cutts  
Age: 20  
Degree: Physics BSc at the University of Bristol  
Company: De La Rue

For the last year I have been employed by De La Rue, a company that specialises in security products – most famously, banknotes. I have been working as part of the company’s research and development team, and the main goal for the year has been to aid in the design, development and production of new features for the banknotes of the future.

I wanted to take a placement to help me decide on my career path for the oncoming years. In particular, I felt that I needed help to decide whether to lean towards an academic or industrial career once I’ve finished my four-year stint in the cocoon that is university life.

The placement itself wasn’t difficult to organise. My university provides a list of companies that have previously employed students, and from there it was a matter of contacting the companies and convincing them to hire me that year.

During my placement I performed a wide spectrum of activities, from standard testing all the way through to designing and creating my own ideas for features for banknotes. This variety kept the placement interesting, each day giving a new set of challenges.

The biggest hurdle that I encountered came at the beginning of my stay with the company: the adjustment from a life of getting up around noon and shuffling into lectures to one where I had to get up every day at seven and attempt to look professional for eight hours a day.

Despite the reality shock, I feel that I’ve learned a lot, especially in the areas of how technologies emerge in corporate environments. Additionally, it forced me to interact with people that I’d have otherwise never encountered, hopefully giving me additional experience and confidence when I leave university to venture into the real world.

Overall I believe that the year has been very beneficial, helping me to gain experience and perspective. I doubt there are people who return from a year in industry and don’t abruptly work much harder, and focus more intently on their university careers.
“It made sense to me to apply because I understood that organisations are more willing to employ graduates with such prior experience in industry.”
I spent one year doing an undergraduate research placement during the third year of my MPhys degree. This was spent in the simulations and modelling department at MBDA, the multinational company specialising in missiles and missile systems.

I was involved in developing a graphical user interface for a battlefield simulation tool, to be used in a broad range of company products. I had to develop knowledge of Visual C++ software and the simulation tool interface. With this I designed and developed a software solution. I enjoyed learning about the techniques used by the simulation tool as well as developing software alongside the user for more direct feedback and insight into the tool’s potential use.

I organised the placement by applying to MBDA, both online and through my university placement advisor during the first term of my second year at university. My degree offered a third-year industrial placement opportunity, which would contribute to a physics Masters qualification.

It made sense to me to apply because I understood that organisations are more willing to employ graduates with such prior experience in industry. I felt that a placement in a physics-related area would also help me to understand how my degree could relate to a possible career and whether that career would be of interest on completion of my degree.

I feel that I’ve learned a lot. Getting used to a five-day week helped me to structure my remaining time at university and prioritise my pursuits. I also developed knowledge of various software tools used in industry. I found that developing my communication skills was an essential part of working life, and something I often neglected during my studies, both at school and university.

I found that it was important to make an effort socially with people at work. I initially thought that I would do the work during office hours and socialise outside work but in actual fact you get a lot more from integrating with your team. That makes it easier to approach them with work problems and it makes working generally more enjoyable.

On the back of my placement I was offered a place on the Graduate Programme at MBDA. I am currently doing the last of four placements within the two-year scheme. My undergraduate placement helped provide me with an immediate network of people within the company and it helped that I had lived in Bristol for a year.

My software knowledge from the placement has enabled me to be immediately “useful” to the company, and helped me to get more out of each sixth-month placement. Finally, understanding how to communicate at work, whether it be in the form of reports, presentations or discussions, has been essential to performing and getting recognised with the company.
“I was given a lot of encouragement and support from other senior physicists, and I’ve learned to be more independent and self-sufficient.”
Case study 3: Modelling radiation

Name: Cam Tsan
Age: 25
Degree: MSci Physics with Space Research, MSc Physics and Technology of Nuclear Reactors at the University of Birmingham
Company: Babcock International

"I did an MSc summer project with Babcock International, within its radiological services business, which lasted for three months.

During the placement, I wrote a programme in IDL (interactive data language), which modelled the three-dimensional distribution of radiation as it transverses different types of material. This programme was then used to characterise the performance of a waste assay unit called the DrumScan LRGS (Low-Resolution Gamma-Ray Spectroscopy), owned by Babcock International.

Further algorithms were programmed to optimise the operation of this unit and laboratory measurements were then taken to establish the accuracy of the modelling. I gave an MSc thesis report and presentation to the company at the end of the project.

Historically this placement has always been offered to students on the Physics and Technology of Nuclear Reactors MSc course run by the University of Birmingham. The intake is dependent on the availability of company resources but the average is two students per year. The placement is offered subject to a positive recommendation from the course tutor to the company and the completion of several security checks.

I decided to do my project as a company placement to get valuable experience of a working environment as well as gain good references for future employers. In my case I applied for (and was given) a permanent position within the company because I really enjoyed the placement.

I enjoyed the time and freedom to apply the skills and knowledge learned from my university degree. I was also given a lot of encouragement and support from other senior physicists, and I’ve learned to be more independent and self-sufficient.

But it wasn’t all easy. Living far away from my family and friends was initially difficult because the company is based in the north-west of Cumbria and I’d never travelled further north than Manchester."
“I had to go to meetings with senior colleagues to discuss data and results about how Centrica could improve performance. It was daunting presenting to large audiences, but it was also rewarding.”
Case study 4: Customer focus

Name: Aimee Broughton
Age: 22
Degree: MPhys at the University of Oxford
Company: Centrica

“I did a 10-week placement at Centrica over the summer of 2009 as part of its general management programme. I was part of a team in one of the British Gas call centres, training call-centre agents to promote web-based activities to customers and lower the volume of inbound calls. I was part of a group organising the training and talking to team leaders.

I applied to Centrica because I was really interested in the energy sector. I had studied energy but was interested in the business behind the energy industry. Centrica was interested in placing us in roles where we could improve the skills we were lacking in, and customer focus was one of these for me.

The most important development over the summer placement was in my confidence to approach and talk about my work to senior stakeholders and members of the business. I was working for a very busy manager, and I had to go to meetings with senior colleagues to discuss data and results about how Centrica could improve performance. It was daunting presenting to large audiences, but it was also rewarding. I picked up people skills and I’m far more confident now going into a room full of people that I don’t know and presenting.

Another important thing was taking feedback constructively to improve my work. The career-coaching session offered by the placement really aided me in considering and prioritising career factors important for me to achieve job satisfaction.

This was my first real office-based job. The placement provided me with an array of business experiences where I have had to use and develop many different skills. I believe that this will now stand me in good stead for future interviews and jobs where I’ll be able to adapt and integrate into the business more effectively. The placement has also helped me to improve the skills that I need more experience in, such as customer focus.

Hopefully this placement will make me a better all-round candidate for future career options, and I’m excited because I’ve now been accepted onto Centrica’s graduate scheme for an analyst role after I graduate from university.”
Air Products

Company profile
Industrial gas cylinders are used all over the world, in almost all industries, in hospitals, even in the home to supply vital oxygen to people with breathing problems. Our cylinders can use 300 bar and we are looking higher. At 300 bar the force on the walls of a cylinder is 3000 tons. Air Products is a blue-chip $10 bn-scale company, headquartered in Pennsylvania, US, but operating in most larger countries of the world with major operations in the UK and Europe.

Number of employees: 20 000

Details of work placements

Title of placements: Industrial R&D internship (12 month & summer)

Duration of work placement on offer: Normally 8–10 weeks, but also some for 1 year

Number of work placements offered per year: 3

Minimum entry required: First-year undergraduate

Are placements paid? Yes, £16 600 (per annum)

Description of placement: We are looking for innovative students with skills in physics and electronics, to work within our small (20) group of engineers and scientists, particularly in our exploratory group. Throughout the year there will be opportunities to join in the training sessions given to Air Products’ R&D personnel, to meet our Human Resources staff and to join in brainstorm sessions looking at our future projects. The Exploratory Projects group is led by Dr Neil A Downie, an industrial scientist and author of several books on popular science and engineering.

Application details

Application deadline: n/a

How to apply: Visit www.airproducts.com

Contact details:
Air Products
Crockford Lane
Basingstoke
RG24 8FE

Tel 01256 728357
E-mail downiena@airproducts.com
www.airproducts.com

Babcock International

Company profile
Babcock International is a leading government and critical support services company, providing engineering and other services mainly to governments around the world.

Number of employees: 12 000

Details of work placements

Title of placements: Industrial placement

Duration of work placement on offer: Summer

Number of work placements offered per year: 1

Minimum entry required: Studying physics at A-level or as an undergraduate

Are placements paid? Yes, £15 600 (per annum)
Description of placement:
We offer eight-week summer placements within the Nuclear Services sector of the company. The role is to support the physicists within the Technical and Instrument Engineering Department.

Application details
Application deadline:
31/03/2011
How to apply:
Visit www.babcock.co.uk/default.aspx
Contact details:
Babcock International
Tracey Shaw, B14.1
Sellafield
Seascale
CA20 1PG
Tel 019467 85070
E-mail tracey.shaw@vtplc.com
www.babcock.co.uk/default.aspx

BAE Systems

Company profile
BAE Systems Advanced Technology Centre provides research and development, consultancy, specialist manufacturing and technology brokering services into defence, aerospace and commercial markets. With 400 scientists and engineers, the Advanced Technology Centre works in collaboration and partnership with academia and innovative organisations throughout the supply chain, identifying, pulling through and integrating technologies and capabilities to deliver discriminating solutions to its customers.

Number of employees: 500

Details of work placements
Title of placements:
Industrial placement
Duration of work placement on offer:
1 year
Number of work placements offered per year:
15
Minimum entry required:
Usually second-year undergraduates are our minimum entry level, but we will consider first-year undergraduates
Are placements paid?
Yes, £16 800 (per annum)
Description of placement:
Actual salary is based on entry level, i.e. second-year undergraduates are paid more than first-year undergraduates. Placements will be at either Bristol or Chelmsford.

Application details
Application deadline:
30/11/2010
How to apply:
Visit www.baesystems.com/Businesses/SharedSe
Contact details:
BAE Systems
Sowerby Building, FPC 267,
PO Box 5, Filton
Bristol
BS34 7QW
Tel 0117 302 8103
E-mail kay.ross@baesystems.com
www.baesystems.com/Businesses/SharedSe
Company profile
Our business is the exploration, production, refining, marketing, trading and distribution of energy, and we do it on a phenomenal scale. We own or part-own 17 refineries around the world; operate tens of thousands of miles of pipelines and run a fleet of more than 80 ships. We produce about 4 million barrels of oil equivalent per day and in recent years we’ve made profits of more than $20 bn a year. We recruit into three key disciplines – engineering, science and business. Within each of these, there is a wide range of opportunities – from chemical engineering to geosciences, chemistry to finance, trading to drilling and completions engineering. Whether you’re based in Exploration & Production, Refining & Marketing, or within our corporate team, you will find the same support and encouragement to achieve new professional heights – and beyond. To find out more and to apply, visit www.bp.com/ukgraduates.

Number of employees: 90 000

Details of work placements
Title of placements:
BP summer internships
Duration of work placement on offer:
3 months
Number of work placements offered per year:
100
Minimum entry required:
The minimum for all roles is a 2.1 in a relevant course. Please see our degree matcher at www.bp.com/ukgraduates.
Are placements paid?
Yes, £20 000 (per annum)
Description of placement:
BP offers opportunities for physics students across a range of science, engineering and business internships. For further details please read about our opportunities at www.bp.com/ukgraduates. We will offer interviews on a first-come first-served basis, so we strongly encourage early applications.

Application details
Application deadline:
14/01/2011
How to apply:
Visit www.bp.com/ukgraduates
Contact details:
BP
Chertsey Road
Sunbury on Thames
Middlesex
TW16 7BP
Tel 0800 279 2088
www.bp.com/ukgraduates

Centrica
Company profile
Centrica is all around you. Sourcing, generating, processing, storing, trading, supplying, servicing and saving energy – our work takes us all over the world, underground and out to sea. As a top-30 FTSE 100 company with more than 30 million customer relationships, a £21 bn turnover and more than 34 000 employees, we are achieving our goals to be the leading integrated energy company in our chosen markets.

Number of employees: 34 000
Details of work placements

Title of placements:
Centrica summer placement programme

Duration of work placement on offer:
10 weeks

Number of work placements offered per year:
75

Minimum entry required:
Penultimate-year student predicted a 2:2 degree

Are placements paid?
Yes, £14,000 (per annum) and paid accommodation

Description of placement:
Get ahead of the game – fast-track your personal development and fulfill your potential through this challenging opportunity.

Our 10-week programme is a proven method to achieving student and business success, time and time again. Our feedback survey shows students have a significant impact on the way Centrica does business. Increasing employability in students increases business productivity; it’s a win-win situation and both of these are high on our agenda. Addressing your development needs and working closely with the business, we produce projects with a high level of responsibility and the opportunity to enhance and develop fundamental skills required for your working life, with a support network that is second to none. We want you to stand out in the workplace and helping you to find out what you are good at is what it’s all about.

We also give you the chance to explore the business so that you can really appreciate the diversity of the organisation and the graduate opportunities on offer. If you perform well, you could leave us with an offer to join the graduate programme the following year.

We have locations across the UK and we arrange and pay for accommodation close to your place of work with the other students based in that area, giving you a ready-made network.

Physics students can apply for one of our exciting opportunities in: General Management (Analyst, Customer Operations, HR, Marketing); Finance; or Information Systems.

Application details

Application deadline:
31/01/2011 but we may fill our places sooner so do apply early

How to apply:
Visit www.centrica.com/graduates

Contact details:
Centrica
Millstream
Maidenhead Road
Windsor, Berkshire
SL4 5GD

Tel 01753 494000
E-mail centrica.graduates@hewitt.com

www.centrica.com/graduates

Follow us on Twitter at www.twitter.com/CentricaGrads or on Facebook at www.facebook.com/centricagraduaterecruitment

CERN

Company profile
The European Organization for Nuclear Research, is one of the world’s largest and most respected centres for scientific research. Its business is fundamental physics, finding out what the universe is made of and how it works. At CERN, the world’s largest and most complex scientific instruments are used to study the basic constituents of matter – the fundamental particles. By studying what happens when these particles collide, physicists learn about the laws of nature. The instruments used at CERN are particle accelerators and detectors. Accelerators boost beams of particles to high energies before
they are made to collide with each other or with stationary targets. Detectors observe and record the results of these collisions. The Large Hadron Collider (LHC) is now embarking on a new era of discovery at the high-energy frontier. LHC experiments will address questions such as what gives matter its mass, what the invisible 96% of the universe is made of, why nature prefers matter to antimatter and how matter evolved from the first instants of the universe’s existence. CERN employs around 2500 people. The laboratory’s scientific and technical staff design and build the particle accelerators and ensure their smooth operation. They also help prepare, run, analyse and interpret the data from the scientific experiments. Some 8000 visiting scientists, half of the world’s particle physicists, come to CERN for their research. They represent 580 universities and 85 nationalities.

Number of employees: 2500

Details of work placements

Title of placements:
Placements for undergraduates; training and development opportunities for graduates and postgraduates

Duration of work placement on offer:
From 8 weeks (summer student) to 3 years (doctoral)

Number of work placements offered per year:
300

Minimum entry required:
Second-year undergraduate

Are placements paid?
Yes, rates vary according to the programme

Description of placement:
You will always have a supervisor on your placement and will work in a very international, multidisciplinary environment.

Application details

Application deadline:
For application deadlines, please see www.cern.ch/jobs under each of the programmes.

How to apply:
Visit www.cern.ch/jobs

Contact details:
European Organization for Nuclear Research
CERN CH-1211
Genève 23
Switzerland

Tel 41227678788
E-mail recruitment.service@cern.ch
www.cern.ch/jobs

De La Rue

Company profile
De La Rue is the world’s largest commercial security printer and paper maker, involved in the production of over 150 national currencies and a wide range of security documents such as passports, authentication labels and fiscal stamps. De La Rue is a leading provider of cash sorting equipment and software solutions to central banks, helping them to reduce the cost of handling cash.

De La Rue also pioneers new technologies in government identity solutions for national identification, driver’s licence and passport issuing schemes.

Number of employees:
De La Rue employs approximately 4000 employees across 24 countries
Discover how the universe began.

Not bad for a day job.

Each and every person at the world's biggest experiment is seeking answers to life's toughest questions. This is a place where engineers rub shoulders with computer scientists; where technicians swap ideas with physicists; and where a quick chat over coffee might just give you the breakthrough you've been looking for. Whatever you're doing at CERN, you'll share in world-changing, awe-inspiring, mind-expanding work. It's amazing what can happen when great minds come together.

Apply at cern.ch/dayjob
Company details

Company profile
Dstl, the Defence Science and Technology Laboratory, is a trading fund of the Ministry of Defence (MOD). Our role is to maximise the impact of science and technology (S&T) for the defence and security of the UK.

Number of employees: 3600

Details of work placements
Title of placements:
Summer vacation and industrial placements

Duration of work placement on offer:
Summer vacation (8–12 weeks); industrial up to 50 weeks

Number of work placements offered per year:
7

Minimum entry required:
Please see individual vacancies for minimum requirements

Are placements paid?
Yes, £14 681–£15 716 (per annum, pro-rata)

Description of placement:
Please visit www.dstl.gov.uk/careers for details of our available placements.

Application details
Application deadline:
16/01/2011

Contact details:
Dstl Porton Down
Salisbury
SP4 0JQ

Tel 01980 613755
E-mail graduates@dstl.gov.uk
www.dstl.gov.uk

De La Rue

Details of work placements
Title of placements:
Industrial placement

Duration of work placement on offer:
1 year

Number of work placements offered per year:
2

Minimum entry required:
First-year undergraduate

Are placements paid?
Yes

Description of placement:
The placement is in the De La Rue Research and Development Department, which is based at our Overton site just outside Basingstoke. Placement students can expect a year of varied experiences and will be fully integrated into the department. Typical activities will include document testing, producing prototypes, materials analysis, industrial trials and formulation work. Other activities include presentation, analysis, reporting and brainstorming.

Application details
Application deadline:
n/a

How to apply:
Visit www.delarue.com

Contact details:
De La Rue House
Jays Close
Viables, Basingstoke
RG22 4BS

Tel 01256 605000
E-mail hr.recruitment@uk.delarue.com
www.delarue.com
Company details

EDF Energy

Company profile
EDF Energy is one of the UK’s largest energy companies and the UK’s largest producer of electricity. A wholly owned subsidiary of the EDF Group, one of Europe’s largest energy groups. It generates around one-fifth of the UK’s electricity, employs around 20,000 people and delivers electricity to around 8 million customer homes and businesses through its public networks.

Number of employees: 2000

Details of work placements

Title of placements:
Industrial placement

Duration of work placement on offer:
1 year

Number of work placements offered per year:
45

Minimum entry required:
At least 1 year of undergraduate study

Are placements paid?
Yes, £15,716 (per annum)

Description of placement:
EDF Energy offers dedicated, enthusiastic students (who have completed at least 1 year of undergraduate study) an opportunity to undertake a 12-month industrial placement in a selection of business areas. These placements allow students to:
• get fully involved in a hands-on role and gain extensive first-hand knowledge of the energy industry;
• work side by side with experienced professionals who will provide invaluable advice and business insight;
• find out more about the EDF Energy graduate training scheme and the requirements of future leaders;
• become involved in significant and worthwhile projects and activities.

In 2010, EDF Energy offered 45 internship opportunities across the following areas:
• Nuclear Science & Engineering
• Business Management & Technology

Application details

Application deadline:
n/a

How to apply:
Visit www.edfenergy.com/careers

Contact details:
EDF Energy
Joanne Norman
Barnett Way
Barnwood
Gloucester
GL4 3RS

Tel 01452 652934
E-mail joanne.norman@british-energy.com
www.edfenergy.com/careers

E.ON

Company profile
We generate and distribute electricity and sell power and gas – providing reliable energy solutions for around 40 million people in almost 30 countries around the world. What’s more, we have the size and resources to take real action on climate change. So we’re constantly looking for new ways to produce clean, reliable and affordable energy, while building a future infrastructure the world can be proud of.

As a graduate you’ll play a leading role in rising to the challenges we face. So from day one we’ll give you all the support you need to become a future leader in your field. In fact, every employee, from
our most junior apprentice to our most experienced engineer benefits from the support, development and networking opportunities offered by our Engineering or Professional Academy. They’re already setting the professional standard — and they’ll help set you apart too.

Diversity in the workplace is equally important. And when it comes to recruitment, our approach is simple. We recruit on talent. And that’s it. So no matter what your gender, age or shoe size, all we’re worried about is your ability to do the job well and fit in with the team. If you think you could, don’t let anything stop you from applying. We’re looking forward to hearing from you.

To find out more and see how your energy could shape the future, visit eon-uk.com/graduates.

**Number of employees:** 17 000 people are employed in the UK

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**Details of work placements**

**Title of placements:**
Undergraduate placements

**Duration of work placement on offer:**
1 year (sandwich placement); summer (3 months)

**Number of work placements offered per year:**
10 undergraduate placements are offered each year across our business including specific roles for students studying or having already graduated in physics

**Minimum entry required:**
Working towards a 2.1 or higher in mechanical, electrical, electrical & electronic engineering or physics

**Are placements paid?**
Yes, £14 000 per annum (pro-rata for short-term placements)

**Description of placement:**
We’re looking for physics students and graduates with an interest in engineering and the power sector. This is the ideal time to put everything you’ve learned so far into practice, joining our teams of engineers to support the smooth running of our fleet of power stations. Working on real projects, you’ll make an impact from day one. Better still, we’ll be with you every step of the way. So you’ll get the mentoring and support you need to get the most from your time with us.

The experience you’ll gain during an undergraduate placement with E.ON is designed to align to one of our graduate programme schemes. During your placement you’ll learn all about our business and pick up useful skills to support you in gaining a permanent role after you graduate, whether it’s with E.ON or elsewhere.

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**Application details**

**Application deadline:**
Please refer to our website at www.eon-uk.com/graduates

**How to apply:**
Visit www.eon-uk.com/graduates

**Contact details:**
Sherwood Business Park
Little Oak Drive
Nottinghamshire
NG15 0DR

Tel 0845 3001427
E-mail gradrecruitment@eon-uk.com
www.eon-uk.com/graduates

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On a new approach

SO, CAN YOU PICTURE THE FUTURE OF ENERGY?

I'M LOOKING AT IT.

Engineering Graduate Programme

Like you, we’re always thinking about the future. Today we’re putting millions of pounds into the new technologies to help us generate lower carbon energy. And we’re using our size and resources to tackle some of the world’s greatest energy challenges head on. Bring your big ideas to us and you could be part of it.

Working alongside passionate, like-minded graduates and experienced engineers you’ll really get under the skin of our business. Whether you train as a specialist or undertake a series of placements, both at home and abroad, you’ll develop your technical and leadership skills and build a bigger picture of our international energy business. And, thanks to our Professional Engineering Development Scheme, you can work towards Chartered status too: giving you the skills to rise to tomorrow’s energy challenges.

Your energy shapes our future.

visit eon-uk.com/graduates
**Hull Collegiate School**

**Company profile**
Independent school.

**Number of employees:** 100

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**Details of work placements**

**Title of placements:**
Teaching/classroom experience

**Duration of work placement on offer:**
Prepared to suit student needs up to a point

**Number of work placements offered per year:**
1

**Minimum entry required:**
Graduate considering entry to teaching

**Are placements paid?**
No

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**Application details**

**Application deadline:**
n/a

**How to apply:**
Contact Steve Pearce

**Contact details:**
Hull Collegiate School
Tranby Croft
Anlaby
East Yorkshire
HU10 7EH

Tel 01482 657016
E-mail steve.pearce@church-schools.com
www.hullcollegiateschool.co.uk/

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**IBM**

**Company profile**
Being inspired is what makes IBM tick. And everything we do is geared around bringing innovation to life. From the PC, the memory chip and the calculator, to the barcode, the games console chip and NASA technology that saw man land on the Moon, we’ve been powering world-firsts for over 100 years.

And today? Well, today we’re the world’s largest consulting services company, operating in more than 170 countries. We are helping to bring clean water to third-world countries, championing efforts to combat climate change, making entire cities more sustainable, traffic flow more freely and help consumers get more from mobile technology. We work with the most forward-thinking clients, organisations and governments. So if you’re an ambitious undergraduate, this is your chance to join a world leader.

With real projects, real clients and real responsibility from day one, it’s a real chance to expand your world. To apply visit ibm.com/start/uk/placement.

**Number of employees:** Unable to disclose this information

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**Details of work placements**

**Title of placements:**
The IBM Industrial Placement Scheme

**Duration of work placement on offer:**
1 year

**Number of work placements offered per year:**
250

**Minimum entry required:**
And what we’re looking for? People at IBM stand out for their imagination, adaptability, drive, teamwork, boundless energy and passion for their area of expertise. You can come from any degree
background, providing you are expecting at least a 2:1 or a 1st. International students must have a valid student visa to cover the placement period and be studying in the UK.

**Are placements paid?**
Yes, £15,000 (per annum)

**Description of placement:**
If you’re looking for a year out as part of your degree, we offer first-class opportunities for top students across our business – from consulting to technology, business operations to sales, finance to human resources. You’ll find it hard to top IBM’s Industrial Placement Scheme. It’s much more than just getting a great name on your CV. It’s 12 months to start building the future you want before you’ve even got your degree. We are now accepting applications for the scheme starting in summer 2011, the deadline for applications is 31 December 2010. Apply online at ibm.com/start/uk/placement.

**Application details**

**Application deadline:**
31/12/2010

**How to apply:**
Visit www.ibm.com/start/uk/placement

**Contact details:**
IBM UK Ltd
IBM UK Limited Headquarters
PO BOX 41
Portsmouth
PO6 3AU

E-mail UK_Students@uk.ibm.com
www.ibm.com/start/uk/

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**Jordan Valley Semiconductors**

**Company profile**
JV-UK manufactures X-ray metrology equipment for the semiconductor industry. It specialises in high-resolution X-ray diffraction techniques, primarily for LED manufacturers.

**Number of employees:** 25

**Details of work placements**

**Title of placements:**
Industrial placement for physicist

**Duration of work placement on offer:**
2 weeks

**Number of work placements offered per year:**
1

**Minimum entry required:**
Undergraduate-level preferred

**Are placements paid?**
No

**Application details**

**Application deadline:**
n/a

**How to apply:**
Visit www.jvsemi.co.uk

**Contact details:**
Jordan Valley Semiconductors
Belmont Business Park
Belmont
Durham
DH1 1TW

Tel 0191 332 4700
E-mail enquiries@jvsemi.co.uk
www.jvsemi.co.uk
MBDA

Company profile
MBDA is a world-leading, global missile systems company, delivering cutting-edge technologies to its multinational customer base. It operates in all of the major world markets and is the only company able to design and produce missiles and missile systems for army, navy and air forces. MBDA has around 10 000 employees based across the UK, France, Italy, Germany and the US. In the UK, research and development is carried out at Stevenage, Hertfordshire, while software and systems engineering takes place in Filton, Bristol, and production in Lostock, Lancashire. Its growing reputation for innovation and technical excellence owes much to the engineering facilities, rated among the most modern in the world.

Number of employees: 10 000

Details of work placements

Title of placements: Industrial placements

Duration of work placement on offer:
1 year

Number of work placements offered per year:
15

Minimum entry required:
3 Cs at A-level, working towards a 2:1 in second or third year of university

Are placements paid?
Yes, £16 000 (per annum)

Description of placement:
We recommend applicants apply as soon as possible because interview days will be run from January 2011, and as soon as we have enough successful applicants we will remove the role from the site.

Application details

Application deadline:
28/02/2011

How to apply:
Visit www.mbdacareers.co.uk

Contact details:
MBDA
PB 108, Six Hills Way
Stevenage
SG1 2DA

Tel 01438 755614
E-mail Nicola.jay@mbda-systems.com

www.mbdacareers.co.uk

National Nuclear Laboratory

Company profile
Created by the government and formerly known as Nexia Solutions, we’re more than a national laboratory. We’re a source of nuclear expertise, offering an unrivalled breadth of technical products and services to organisations nationally and internationally. These include everything from fuel manufacture, power generation, reprocessing and waste treatment to disposal, defence, new nuclear build and Homeland Security. Our scientific innovation will power the future of energy in the UK and beyond. At our state-of-the-art facilities, our world-class team has an unrivalled breadth of technology expertise, including many skills unique to the UK. We’ll supply the pioneering R&D that will monitor, safeguard and drive forward the industry by: reducing the cost of clean-up and decommissioning; maintaining critical skills; attracting new people to the industry; working with other national nuclear laboratories around the world.

Number of employees: 750
Details of work placements

Title of placements:
Student placements

Duration of work placement on offer:
Summer

Number of work placements offered per year:
2

Minimum entry required:
Second-year undergraduate

Are placements paid?
Yes, £13 000 (per annum)

Description of placement:
The NNL is a national centre of scientific and engineering expertise, and we take our responsibilities to future generations of skilled scientists and engineers very seriously. As part of this commitment we offer summer placements for undergraduate students studying within the engineering and scientific disciplines designed to help them further their learning and develop their skills. These placements represent your chance to extend academic learning into practice within the NNL. Placements are based mainly within the Central Laboratory at Sellafield, with limited opportunities available at our other locations. You can expect a competitive salary and we also offer assistance with accommodation for students who will need to live away from home. Training and support will be first class and those students who demonstrate good performance will have the opportunity to attend an assessment centre for future sponsorship and employment possibilities.

Application details

Application deadline:
31/12/2010

How to apply:
Visit www.nnl.jobs

Contact details:
National Nuclear Laboratory

Nuclear Medicine Centre (CMUH)

Company profile
Central Manchester University Hospitals (CMUH) is the leading provider of tertiary specialist healthcare services in Manchester. We treat more than a million patients every year. Our five specialist hospitals are home to hundreds of world-class clinicians and academic staff committed to finding our patients the best care and treatments.

The Nuclear Medicine Centre at CMUH offers a wide range of nuclear medicine services for patients referred from throughout the region, including imaging, therapy and non-imaging tests. The imaging team is supported by a team of eight scientists: six medical physicists and two radiopharmacists.

Number of employees: 9000

Details of work placements

Title of placements:
Work shadowing in medical physics

Duration of work placement on offer:
Placements are typically 1–2 weeks in length

Number of work placements offered per year:
6

Minimum entry required:
Physics undergraduates are preferred but it may be
possible to accommodate good A-level students

**Are placements paid?**
No

**Description of placement:**
Placements are offered throughout the year and are tailored to the student’s requirements and the availability of supervisors within the physics staff of the Nuclear Medicine Centre.

NMH offers placements shadowing medical physicists and technicians in the Nuclear Medicine Centre at Central Manchester NHS Foundation Trust. It may also be possible to arrange additional experience with physicists working with radiotherapy, magnetic resonance, X-ray or computed tomography equipment during the placement. Occasionally students may also be able to undertake practical project work.

**Application details**

**Application deadline:**
n/a

**How to apply:**
Visit www.cmft.nhs.uk

**Contact details:**
Central Manchester University Hospitals NHS Foundation Trust
Oxford Road, Manchester
M13 9WL

Tel 0161 2764788
E-mail HeatherA.Williams@cmft.nhs.uk
www.cmft.nhs.uk

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**Oxford Instruments**

**Company profile**
Oxford Instruments NanoScience, a world leader in the supply of cryogenic systems, was delighted in 2010 to receive the Queen’s Award for Enterprise in the Innovation category, the fifth Queen’s Award afforded to this business which epitomises the spirit of innovation and commitment to cutting-edge technology that lies at the heart of the company.

The aim is to pursue responsible development and deeper understanding of the world through science and technology. As one of the first spin-out companies from Oxford University, this vision has been at the heart of the business for more than 50 years. We use innovation to turn smart science into world-class products that support research and industry to address the great challenges of the 21st century.

Oxford Instruments was recently named as one of the UK’s top 500 Business Superbrands. Our brand shapes how we work. We meet our customers’ needs through advanced technology and service and we do so with passion, care and pace. This is what enables us to help shape the future.

We’re proud of our innovative heritage and our culture is founded on innovation, enduring relationships and trust. It is creativity and originality within our working environment that enables us to offer amazing work placement opportunities.

**Number of employees:** 160 worldwide

**Details of work placements**

**Title of placements:**
Science work placements

**Duration of work placement on offer:**
Summer

**Number of work placements offered per year:**
2–3
Minimum entry required:
Second-year undergraduate

Are placements paid?
Yes, £16 000 (per annum pro rata)

Application details
Application deadline:
n/a

How to apply:
Visit www.oxford-instruments.com

Contact details:
Karen Taylor, HR director
Oxford Instruments
Tubney Woods
Nr Abingdon, Oxfordshire
OX13 5QX

Tel 01865 393200
E-mail karen.taylor@oxinst.com
www.oxford-instruments.com

Prysmian Cables & Systems Ltd

Company profile
A leading player in the industry of high-technology cables and systems for energy and telecommunications, with sales exceeding 3.7 billion Euro in 2009, the Prysmian Group is a truly global company, with subsidiaries in 39 countries, 56 plants in 24 countries, 7 Research & Development Centres and more than 12 000 employees. With its strong position in the market segments characterised by the highest added value, the group is active in the development, design, manufacturing, supply and installation of a wide range of cables for the most diverse applications in the energy and telecommunication sectors. Specialising in delivering products and services designed to specific customer requirements, the key strengths that are the hallmark of Prysmian include: close focus on research & development (more than 3000 patents granted and filed); the capacity to innovate on products and production processes; and the use of advanced proprietary technologies.

Number of employees: 1000

Details of work placements
Title of placements:
Placement student

Duration of work placement on offer:
1 year

Number of work placements offered per year:
2

Minimum entry required:
The placement must be part of the degree course and the student must be an undergraduate

Are placements paid?
Yes, £14 000 (per annum)

Description of placement:
We offer on average two placement positions for students studying physics, however, there are on average 25 placement student positions in total across the business covering both business and engineering disciplines.

Application details
Application deadline:
Please visit the website to check the closing date for places in 2011

How to apply:
Visit www.prysmian.com

Contact details:
Prysmian Cables & Systems Ltd
Chickenhall Lane
Rolls-Royce

Company profile
Rolls-Royce is a leading provider of power systems for use on land, at sea and in the air, we are constantly innovating, improving and progressing, in every way possible. We currently employ 40 000 people worldwide, invest around £900 m in R&D annually and have a record £57.5 bn worth of orders on our books, making for an exciting place to work – a place where progress is a way of life, and careers are built on the kind of innovation and excellence that drives us all forward, every single day.

Number of employees: 40 000

Details of work placements
Title of placements: Internships and summer internships
Duration of work placement on offer: Internships: 1 year; 12-week placements are over the summer months
Number of work placements offered per year: 120
Minimum entry required: A-level maths and physics, grade B or above or equivalent
Are placements paid? Yes, £17 850 (per annum)

Description of placement:
We offer a variety of positions across the organisation covering both business and engineering disciplines.

Application details
Application deadline: 07/01/2011
How to apply: Visit www.rolls-royce.com
Contact details:
Rolls-Royce
Derby
DE24 8BJ
Tel 01332 242424
E-mail HRsharedservicecentre@rolls-royce.com
www.rolls-royce.com

SciSys UK Ltd

Company profile
SciSys is an innovative business and technology solutions company with a compelling track record. For more than 20 years we have worked closely with our clients building business strategies, cost-effective technology solutions and long-term relationships. We define, design, build, integrate and support reliable, sustainable solutions based on experience with pioneering technologies. We deliver essential business transformation, embracing people and processes as well as technology. Our success is built on technical expertise, domain knowledge and a genuine drive to work with clients in ways that suit their needs and commercial expectations.

Number of employees: 300
Details of work placements

Title of placements: University placement

Duration of work placement on offer: Variable duration

Number of work placements offered per year: 4

Minimum entry required: Second-year undergraduate

Are placements paid? Yes, £11,700 (per annum)

Description of placement: Placements will be for software development within the Space Division of SciSys UK Ltd at its offices in Bristol or Chippenham

Application details

Application deadline: n/a

How to apply: Visit www.scisys.co.uk

Contact details:
SciSys UK Ltd
Methuen Park
Chippenham
SN14 0GB

Tel 01249 466531
E-mail recruitment@scisys.co.uk

www.scisys.co.uk

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SeaChange International

Company profile
SeaChange® International, Inc, a Delaware corporation founded on 9 July 1993, is a leading developer, manufacturer and marketer of digital video systems and services. These products and services facilitate the aggregation, licensing, storage, management and distribution of video, television programming and advertising content. Our clients include Virgin Media, British Telecom, Freesat, Freeview, 3G Hutchison (UK and Italy), Vodafone South Africa, KDG, Unity Media and KBW (Germany), UBC and Ziggo (NL) and Turk Telecom in Europe. Internationally we serve Cablevision, Comcast, Cox, Rogers, Verizon Communications, ABC Disney, Ascent Media, Clear Channels and China Central Television.

With acquisitions of Mobix Interactive and eventIS in Europe, our customer reach has extended significantly making SeaChange companies the market leaders in EMEA in digital television platform and content management systems. SeaChange operates a number of wholly owned subsidiary companies – our SeaChange companies are:

- Vivid Logic, Inc. (Fremont, California). Vivid Logic develops client-based middleware (DLNA, tru2way, OCAP, MHP, GEM).
  www.vividlogic.com/
- eventIS (Eindhoven). DTV platform and content management software.
  www.eventis.nl
- Mobix Interactive (London). Mobix Interactive provides the enabling technology and media services expertise to deploy advertising-integrated mobile video and TV businesses for network operators and media owners worldwide.
  www.mobixinteractive.com
- On Demand Group (London). On Demand Group is a leader in interactive media development, content acquisition, service and content management, and television production.
  www.ondemand.co.uk

Number of employees: 1250

Details of work placements

Title of placements: Video technology placements
Duration of work placement on offer: Summer
Number of work placements offered per year: 3
Minimum entry required: Last year before graduation or graduate levels
Are placements paid? Yes, if the duration is more than six months (£1200 per month)
Description of placement: In this position you will have access to new technologies such as linear and on demand video on iPhone, Android and iPad, streamed using Flash or HTML 5 within a CDN or managed network infrastructure. You will be able to familiarise yourself with content acquisition and content management techniques as well as the basics of project planning, programme management and implementation, and testing of multi-screen technologies.
The position will report into the director of field operations and systems integration and will be tasked with performing onsite configuration (following the correct SeaChange procedures) during maintenance windows at customer sites, and remotely troubleshooting issues and problems should they arise. Furthermore, the trainee will also be expected to participate in system integration efforts, such as testing of interfaces and applications and investigation of product compatibility issues.
The candidate will speak English fluently and be based in Winnersh Triangle (near Reading) or Tower Bridge Road (London) but is expected to travel around the UK and to other countries if/when necessary (travel and accommodation expenses during travel to client sites will be funded/reimbursed).

Application details
Application deadline: n/a

How to apply: Visit www.schange.com and www.eventis.nl
Contact details:
SeaChange
Unit 2, Winnersh Fields
Gazelle Close, Winnersh
Wokingham
Winnersh Triangle
RG41 5QS
Tel +31 (0)40 248 81 76
E-mail jobs@eventis.nl,

SELEX
Company profile
SELEX Sensors and Airborne Systems Limited and Galileo Avionica SpA operate internationally with a common brand, within the Finmeccanica Group, and are now known as SELEX Galileo. SELEX Galileo employs 7200 personnel with operations in the UK, Italy and the US. Across air, land, sea and space, SELEX Galileo combines a full range of technologies to deliver integrated sensor solutions for military defence systems and homeland security applications.
Number of employees: 7200

Details of work placements
Title of placements: Industrial placement
Duration of work placement on offer: 1 year, between July and July annually
Number of work placements offered per year: 10
Minimum entry required: Undergraduate at any year within degree
Are placements paid?
Yes

Description of placement:
You can expect a competitive salary and valuable experience working with an ambitious leader in their field among customers, programmes and operations across the world. During your time with us, your training and development will be managed through on-the-job training on a variety of challenging and exciting projects and programmes. In addition you will be extended opportunities to offer you insights into different areas of the business and to engage in external activities within the local community and at universities across the UK. You will also be working in the same environment as the current apprentices and graduates to ensure the time you spend with us is fun and supported by an active social life. You will be supported every step of the way and regular Industrial Placement Forums are held to monitor your experiences and ensure you are reaping the benefits of the placement. Throughout your placement you will have the opportunity to establish contacts across the industry and to demonstrate your value to the company. Performing at a high level can be rewarded with sponsorship at university and a conditional job offer for our Transnational Graduate Development Programme, enabling you to concentrate on your studies before returning to SELEX Galileo and continuing your career.

Application details

Application deadline:
27/05/2011

How to apply:
Visit www.selexgalileo.com

Contact details:
SELEX Galileo
Basildon, Essex
SS14 3EL

TTP Group

Company profile
TTP Group is Europe’s leading independent technology and product development company.

TTP was established in 1987 and its headquarters are based in Melbourn near Cambridge. TTP’s technology lies behind many products and processes in areas as diverse as optics, digital printing, communications, instrumentation, consumer products, drug discovery, drug delivery and software. TTP has its own extensive laboratory and pre-production manufacturing facilities and employs engineers, scientists and business-development specialists of the highest quality. We also work in a traditional consultancy role to help companies manage their business and technology better. Our customers include some of the world’s largest and most successful as well as some of the smallest and most ambitious. TTP incubates new companies and manages a Venture Capital fund, which invests in early-stage technology start-ups. At the heart of everything that we do lies innovation. We believe that innovation is of supreme importance to any company with ambition to survive and grow amid the challenges presented by new legislation to protect the environment. It is the process that enables a company to respond to competitive pressure and a changing competitive environment and, most importantly, it is what enables a company to be more tomorrow than it was yesterday.

Number of employees: 300
vision

def:
  n: the ability to anticipate possible future events and developments
adj: unusually acute foresight and imagination
Company details

Details of work placements

Title of placements:
Summer internships

Duration of work placement on offer:
3 months

Number of work placements offered per year:
5

Minimum entry required:
A-level grades, second-year undergraduates

Are placements paid?
Yes, £360 per week

Application details

Application deadline:
March 2011

How to apply:
Visit www.ttpgroup.com

Contact details:
TTP Group plc
Melbourn Science Park,
Cambridge Road
Melbourn, Hertfordshire
SG8 6EE

Tel 01763 262626
E-mail fran.maguire@ttp.com
www.ttpgroup.com

Thermo Fisher Scientific

Company profile
Thermo Fisher Scientific Inc. (NYSE: TMO) is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer. With revenues of more than $10 bn, we have approximately 35 000 employees and serve customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as in environmental and process control industries. We create value for our key stakeholders through two premier brands, Thermo Scientific and Fisher Scientific, which offer a unique combination of continuous technology development and the most convenient purchasing options. Our products and services help accelerate the pace of scientific discovery and solve analytical challenges ranging from complex research to routine testing to field applications.

Number of employees: 35 000

Details of work placements

Title of placements:
Industrial placement and work experience

Duration of work placement on offer:
Summer work and university placements across mechanical and electrical engineering and physics

Number of work placements offered per year:
2–5

Minimum entry required:
Undergraduates and postgraduates in the physical sciences or engineering. A level grades, second-year undergraduates.

Are placements paid?
University placements are paid. Unpaid work experience is also available.

Description of placement:
We will give you a variety of projects that will give you a chance to explore the business so that you can really appreciate the scale and breadth of the business and the type of careers on offer. You will have the ability to develop your skills to enable you to settle into and succeed in a business environment. You could even have the opportunity of joining us following the successful completion of your studies. Location will be at Surface Analysis Business Unit in East Grinstead, Sussex. Thermo
Company details

Fisher Scientific Surface Analysis Instruments manufacture surface analysis products for both industry and academia, which includes the “R&D 100 Award” winning K-alpha. Other placements may be available at one of our other 30 UK sites.

Application details

Application deadline:
N/A

How to apply:
Visit www.thermofisher.com

Contact details:
Thermo Fisher Scientific
Unit 24, The Birches Industrial Estate
Imberhorne Lane
East Grinstead
RH19 1UB

Tel 01342 310221
E-mail egrecruitment@thermofisher.com
www.thermofisher.com

Thinktank

Company profile
Thinktank is Birmingham’s science museum. We have school visitors and the general public coming to enjoy and learn about science in an informal and fun environment. We also have a state-of-the-art planetarium for exploring space.

Number of employees: 119

Details of work placements

Title of placements:
Work experience at Thinktank, Birmingham Science Museum

Duration of work placement on offer:
2 weeks

Number of work placements offered per year:
25

Minimum entry required:
Year 11+

Are placements paid?
No

Description of placement:
Would generally suit post-GCSE students, mid- or post A-levels but we can be flexible for university students too. We focus on the communication of science to a range of museum audiences.

Application details

Application deadline:
N/A

How to apply:
Visit www.thinktank.ac.uk

Contact details:
Birmingham Thinktank
Millennium Point
Curzon Street
Birmingham
B4 7XG

Telephone 0121 202 2202
E-mail catherine.price@thinktank.ac.uk
www.thinktank.ac.uk
Tonbridge School

Company profile
The education of future physicists is of prime concern to us and we have a strong track record of producing high-calibre students who remain interested in physics long after they have left the school. Tonbridge School is one of the leading boys’ schools in the country. Boarders and day boys of varying backgrounds are offered an education remarkable both for its breadth of opportunity and the exceptional standards routinely achieved in all areas of school life. Tonbridge School aims to provide a caring and enlightened environment in which the talents of each individual flourish. We encourage boys to be creative, tolerant and to strive for academic, sporting and cultural excellence. The school is extremely successful in its university entrance (more than 20% of leavers go to Oxbridge) and strives for excellence in all fields, yet the ethos of the school is one of strong participation and acceptance of each others’ strengths and weaknesses rather than blind concentration on results. Tonbridge School lies in about 150 acres of land on the edge of the town of Tonbridge.

Number of employees: 550

Details of work placements

Title of placements: Teaching practice

Duration of work placement on offer: Two weeks minimum; term-time

Number of work placements offered per year: 2

Minimum entry required: Second-year undergraduate, A-levels (A in physics, A in maths)

Are placements paid? No

Description of placement: Students who are considering a career in teaching physics will be given first-hand experience of teaching bright children. After some guidance students will be expected to team teach with an experienced teacher and then will be invited to teach lessons by themselves. Coaching and training will be given and exceptional students will be encouraged to apply for positions when they become available.

Application details

Application deadline: An application must be made one term in advance

How to apply: Please e-mail rlf@tonbridge-school.org

Contact details:
Tonbridge School
High Street
Tonbridge
TN9 1JP

Tel 1732365555
E-mail rlf@tonbridge-school.org
www.tonbridge-school.org

Tracerco

Company profile
Tracerco is a world leader in process diagnostic measurement services and specialist instrumentation, providing products to international customers in the oil, gas and chemicals industries. Headquartered in Billingham in north-east England, it employs more than 300 people worldwide and is part of the Johnson Matthey Group. Our continued success is reliant on the development of innovative...
Company details

instruments and measurement techniques.

Number of employees: 300

Details of work placements

Title of placements:
Industrial placements, physics, mechanical engineering

Duration of work placement on offer:
Summer

Number of work placements offered per year:
2

Minimum entry required:
Second-year undergraduate

Are placements paid?
Yes, varies

Description of placement:
Work with a world-class development team on experimental and theoretical projects. An ideal opportunity to experience leading-edge physics and engineering in an industrial environment.

Application details

Application deadline:
n/a

How to apply:
Visit www.tracerco.com

Contact details:
Tracerco
Pavilion 11
Belasis Hall Technology Park
Billingham, Cleveland
TS23 4EA

Tel 01642 375500
E-mail Tracerco.Recruitment@tracerco.com

www.tracerco.com

Traffic Directorate

Company profile
Work is placed within the Traffic Directorate in Streets Transport for London. This directorate has primary responsibility for keeping London’s streets moving and has a strong day-to-day operational focus.

Number of employees: 140

Details of work placements

Title of placements:
Industrial placement work experience in analysis of traffic data for the Traffic Directorate at TfL

Duration of work placement on offer:
3 months

Number of work placements offered per year:
2

Minimum entry required:
Second-year undergraduate. Preference expressed for persons with strong data orientations and problem-solving skills.

Are placements paid?
No

Description of placement:
Work experience includes use of analytical techniques, experience of data sets, use of GIS techniques, and use of statistical software and database experience.

Application details

Application deadline:
n/a

How to apply:
Visit www.tfl.gov.uk

Contact details:
Traffic Directorate
Streets, Transport for London
197 Blackfriars Road
Ultra Electronics

Company profile
Ultra Electronics is an internationally successful defence, security, transport and energy company with a long, consistent track record of development, innovation and growth.

Number of employees: 4000

Details of work placements
Title of placements: Industrial placements
Duration of work placement on offer: Summer
Number of work placements offered per year: Up to 10
Minimum entry required: First-year undergraduate
Are placements paid? Yes, amount varies
Description of placement: Industrial placements take place at one of Ultra’s 10 UK businesses and offer experience in a wide variety of technologies and markets.

Application details
Application deadline: n/a

How to apply:
Visit www.ultra-electronics.com

Contact details:
Ultra Electronics
Bridport Road
Greenford
UB6 8UA

Tel 020 8813 4321
E-mail hr@ultra-electronics.com
www.ultra-electronics.com

Xerox Limited

Company profile
The product development team based in Welwyn Garden City, Hertfordshire, is responsible for the design of office multifunction products. These are manufactured and sold in markets across the world and have a large share of the market. The team has a diverse array of skills with mechanical engineering, physics, electronics and software elements coming together to deliver a completely validated product ready for mass manufacture. Our worldwide revenue is $22 billion.

Number of employees: 130 000

Details of work placements
Title of placements: Industrial placements
Duration of work placement on offer: 1 year
Number of work placements offered per year: Up to 3 (in competition with graduates with other disciplines)
Company details

Minimum entry required:
Second-year undergraduate

Are placements paid?
Yes, £15 000

Description of placement:
Product development based within the Marking and Imaging design group or the Systems Engineering group. Applied physics environment in dynamic engineering team with hands-on laboratory and pilot plant scale work.

Application details

Application deadline:
03/12/2010

How to apply:
Visit www.xerox.com

Contact details:
Xerox
Bessemer Road
Welwyn Garden City
AL7 1BU

Tel 01707 353535
E-mail Rob.Kay@xerox.com

www.xerox.com
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About the Institute of Physics

The Institute of Physics is a scientific charity devoted to increasing the practice, understanding and application of physics. It has a worldwide membership of around 40 000 and is a leading communicator of physics-related science to all audiences, from specialists through to government and the general public. Its publishing company, IOP Publishing, is a world leader in scientific publishing and the electronic dissemination of physics.

To find out more, go to www.iop.org or contact us on 020 7470 4800.

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