Inspiring Future Leaders in Engineering

Arkwright Scholarships Trust

Arkwright Engineering Scholarships
The Arkwright Scholarships Trust

• We are a charity, established for 22 years, which operates across the UK and Channel Islands

• Our Mission: To Inspire and Nurture Future Leaders in Engineering

• Our Focus:
  – Engineering: Wide definition including related areas of design, construction, chemicals, software and computing
  – High-calibre students destined to go to university or into a higher apprenticeship and take a ‘leadership’ role in engineering industry or academia
What is an Arkwright Engineering Scholarship?

- Supports & encourages you to do well in your A levels/Scottish Highers
- Helps you to explore engineering & related areas of design
- Helps you to decide if a degree or higher apprenticeship and a career in these subjects are for you
How Do I Get an Engineering Scholarship?

• You must be in the right year
  - year 11 (England & Wales), S4 (Scotland), year 12 (NI)

• A competitive application process
  - Application form with teacher reference by end of January 2014
  - Two-hour aptitude paper in February 2014
  - University interview in March/April 2014
  - Matching to a Sponsor in June/July 2014
  - Awards Ceremony in October 2014
The Aptitude Paper

- Two hours, sat under exam conditions in school
  - Section A – explore diverse & interesting solutions to the set problems – practice thinking outside the box
  - Section B - explain a full solution in greater detail - practice describing how products are constructed
The Interview

- Hosted at a top university
- Parents can come along (not into the actual interview)
- 20 minute interview
- Two interviewers
- Talk about your practical project, your extracurricular interests and your future aspirations in Engineering and/or related areas of Design
What Do I Get from a Scholarship?

• A highly-respected Scholarship to go on your university or higher apprenticeship applications - get noticed!
• Experience days
• Mentoring & Networking
• Free CREO™ CAD software
• Enrichment courses
• Trade magazine subscription
• £600 personal award
Longer-term Benefits

• Exclusive university undergraduate Scholarships
• Alumni activities
• Powerful networking group (over 2000 engineers and technical designers)
Does it Help My School? (1)

- The school Department that supported your application receives £400 per Scholarship
  - If you get a Scholarship you’ll enable your teacher to buy new technical equipment and help your classmates in the process
Does it Help My School? (2)

• Winning prestigious Arkwright Engineering Scholarships helps to:
  – motivate & reward high-calibre students as they enter the 6th Form
  – raise the supporting Department’s profile within the school
  – raise the whole school’s profile nationally
  – provides the school with valuable marketing opportunities to prospective parents

• All this through a scheme that has a low time commitment on teachers and costs just £37.50 per application (with no hidden costs to the school)
Where Do I start?

- Talk to your Technology, Design, Science, ICT or Engineering teacher as soon as you can. If they think you are good enough then they will guide your application.
To apply, students must be:

- Attending an Arkwright Affiliated School
- In Year 11 (England & Wales), S4 (Scotland), year 12 (Northern Ireland) and taking GCSEs/Scottish Standards relevant to engineering and technical design
- Making a commitment to Maths preferably to A2 / Advanced Higher
- Planning to take A levels/Scottish Highers appropriate to a higher apprenticeship or university study in engineering or related areas of design
- Actively considering a career in engineering or related areas of technical design
What people say

“Arkwright opens doors onto opportunities which we otherwise wouldn't have access to.” - Hannah Redmond, Trainee Manager, Kier (Arkwright alumna)

“I have always rated Arkwright Scholarships highly. Scholars who apply to study at our University demonstrate a strong interest in the real world of engineering.” - David Robb, Mechanical Engineering Admissions Tutor, Imperial College

"Thank you for the wonderful opportunity of an Arkwright Engineering Scholarship. I believe it played a big part in my getting an unconditional place at University." - John Hutcheson, Arkwright alumnus

“My son and I thoroughly enjoyed the recent engineering visit to the RNLI College. It was very informative and worth the long journey.” – Susan, mother of an Arkwright Scholar
Enrichment Opportunities
Find Out More

arkwright.org.uk/scholars
Useful Statistics

(for those who want the ‘nitty gritty’)

Arkwright Scholarships Trust
Arkwright Affiliated Schools By Type

- 768 schools (and growing) across the UK

Pie chart showing:
- State (non-selective entry): 56%
- State (selective entry): 15%
- Independent: 29%
Arkwright Affiliated Schools By Type of Intake

- Boys only: 14%
- Girls only: 10%
- Co-Educational: 76%
Male/Female Split of Applicants

Year of Application

Percentage of Total Applicants

- % Male
- % Female
Male/Female Split of Scholars

Percentage of Total Scholars

Year of Award

% Male

% Female
Location of Scholars 2012

- South East England: 21%
- North East England: 12%
- South West England: 11%
- East of England: 10%
- East Midlands: 8%
- North West England: 9%
- Scotland: 8%
- West Midlands: 8%
- Wales: 2%
- Jersey: 1%
- London: 7%
- Northern Ireland: 3%

(NI was not involved at this time)
Number of Annual Pupil Applications
Note: A total of 3348 Scholarships have been awarded over a period of 22 years.
Probability of Securing a Scholarship

Year of Application: 2000 to 2013

- Probability of securing a scholarship: 25% (1:4)
- Probability of securing a scholarship: 35% (1:3)

The graph shows the probability of securing a scholarship from 2000 to 2013, indicating fluctuations over the years.
Historic Scholars’ GCSE / Scottish Standard Grade Results
Scholars’ GCSE / Standard Grade Results 2012

**Mathematics**
- A* (1) Distinction: 73%
- A (2) Merit: 20%
- B (3): 6%
- C: 1%

**Physics**
- A* (1) Distinction: 80%
- A (2) Merit: 16%
- B (3): 3%
- C: 1%

**Design and Technology**
- A* (1) Distinction: 68%
- A (2) Merit: 27%
- B (3): 4%
- C: 1%

**Chemistry**
- A* (1) Distinction: 75%
- A (2) Merit: 20%
- B (3): 4%
- C: 1%
Scholars’ GCSE / Standard Grade Results 2012

Electronics
- 13% A*(1) Distinction
- 21% A (2) Merit
- 78% B (3) C

Biology
- 1% A*(1) Distinction
- 4% A (2) Merit
- 25% B (3) C
- 70% C

Engineering
- 4% A*(1) Distinction
- 38% A (2) Merit
- 10% B (3) C
- 48% C

English
- 3% A*(1) Distinction
- 39% A (2) Merit
- 18% B (3) C
- 40% C
Scholars’ Destinations (average of last five years)

- Engineering degree at university: 88%
- Non-engineering degree at university: 7%
- Engineering Apprenticeship: 3%
- Other: 2%
Most Popular Universities for Alumni
(over the last 11 years)
Sponsorship Income 2013
(i.e. where our funding comes from)

- Universities: 7%
- Armed Services: 4%
- Personal & School Donations: 3%
- Charitable Trusts: 35%
- Skills & Trade Associations, Professional Institutions: 11%
- Commercial Companies: 40%