

## What is Electrical Energy Engineering?

Electrical energy engineering involves:

- the generation of electrical energy, increasingly using renewable energy sources, such as wind, solar, wave / tidal, hydrogen cells, etc
- the control of electrical energy, using power electronics to optimise process and energy efficiency
- the automation and control of electrical energy in industry, transport, office and the home.

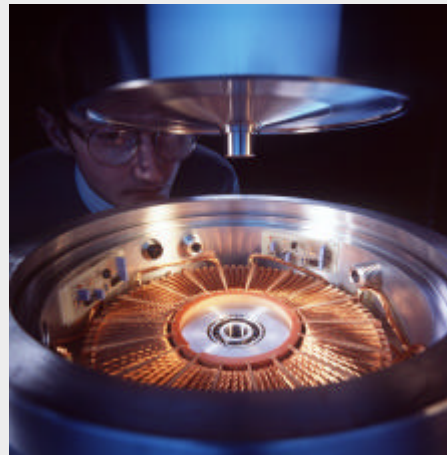
## Why an Academy?

Leading UK companies working in the field of electrical energy engineering have seen their businesses expanding rapidly as energy efficiency has become a subject of global importance. But there just aren't enough suitably qualified engineering graduates pursuing a career in this Industry. Companies and universities have come together to establish the E3 Academy as one of the mechanisms to address this problem.

The main aim of the E3 Academy is to encourage school students to consider an exciting and challenging career in electrical energy engineering. The E3 Academy is endorsed and supported by the Institution of Engineering and Technology (IET).

## How does it work?

- The E3 Academy partner companies offer scholarships to students applying for IET accredited BEng/MEng courses at the partner universities.
- A scholarship of £2500 is paid each year for the duration of the course.
- The sponsoring company provides paid vacation training for a minimum period of 8 weeks the remuneration for which is common across all companies.
- Each scholar has a company mentor.
- There is no obligation for the company to accept the scholar after graduation. There is no obligation on the student to join the company after graduation. If the scholar does join, the company will reimburse one third of the home University fee.
- Each scholar attends the annual E3 Academy summer school.



*Prototype flywheel energy store developed at Newcastle University*

## E3 Academy FAQs

### *How are the Academy Scholars selected?*

Applicants complete a common E3 Academy application form, on which they are asked to select their first three company preferences. The application forms and references are circulated to all companies. Companies conduct their own interviews and make offers directly to their chosen candidates.

### *How much does it cost?*

The current scholar management fee is £1000 per new sponsored place. The cost per place for subsequent years is £500. In addition all partners pay £500 annual membership fee. These amounts cover the management and administration of the Academy, marketing, the summer school accommodation costs and the web site development and maintenance.

### *How many Scholars are recruited?*

It is the normal expectation that participating companies will recruit at least one scholar per year. However it is accepted that smaller companies may not be able to meet this target.

### *What is the long term commitment?*

Participants are expected to remain members of the Academy until all of their scholars graduate. This requirement ensures that all scholars enjoy the benefits of Academy participation, such as the summer school, throughout their university careers.

## What they say.....

“Engineers are the lifeblood of an industrial company and their logic and numeracy skills make them in high demand elsewhere.”

- *Bill Drury, Control Techniques, Emerson Industrial Automation*

“The E3 Academy initiative is a great example of the way businesses and universities can work together.”

- *Richard Lambert, Director-General, CBI speaking at the E3 Academy Launch*

“This sector is growing rapidly, which provide a huge opportunity for all young engineers and companies.”

- *Yu Ma, E3 Scholar*

“The E3 Academy can play a central role in the future health of our manufacturing and engineering capability.”

- *Bob Owen, Siemens Automation & Drives*

## How to find out more

If you want to know more about the E3 Academy, please visit the website at:

[www.E3Academy.org](http://www.E3Academy.org)

Further enquiries from companies interested in participating are welcomed by the E3 Academy Manager:

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*‘Wine angels’ at the Radisson SAS Hotel, Stansted fly with a little help from Siemens Automation & Drives*



generating professional  
engineering skills for *your*  
company