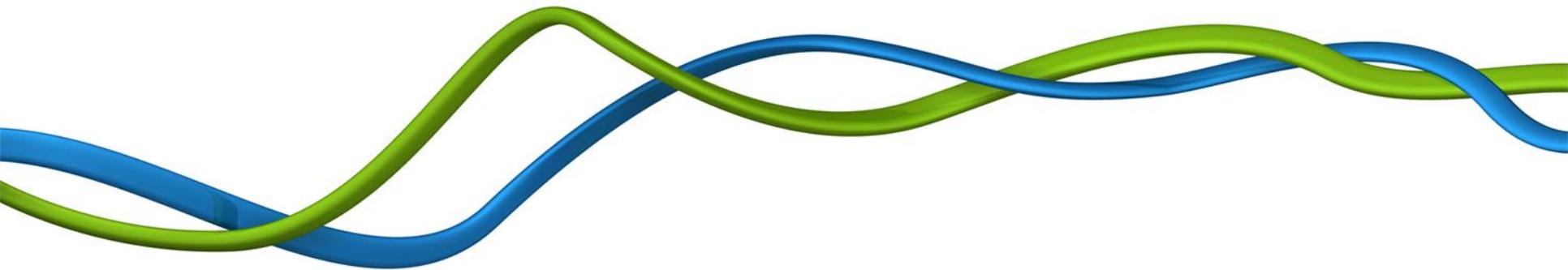


Royal Academy of Engineering



Neeshé Khan

Programmes Manager

Our Role

- Make the UK the leading nation for engineering innovation
- Address the engineering skills crisis
- Position engineering at the heart of society
- Lead the profession
- Greatly enhance the Academy's delivery capability

RAEng Funding Opportunities

- Education
- Enterprise
- Public Engagement
- International Programmes
- Research Programmes (UK)

Education

1. Teacher coordinators collaborative project

Creating a national network of support for teachers across STEM subjects with the aim to engage more students from a wide spectrum in STEM.

2. Engineering Leaders Scholarships

Supporting ambitious and inspiring engineering undergraduates who display the potential to become leadership role models.

3. Visiting Teaching Engineers (Motorola Solutions Foundation)

Supporting female industrial practitioners in the delivery of face-to-face teaching, mentoring, and, careers advice to enrich the learning experience and create role models for those studying STEM in colleges. Award value £2.5k

4. Visiting Professors

Enabling industry practitioners to deliver face-to-face teaching and mentoring at a host university to enhance student learning and the employability and skills of engineering graduates. Awards up to £30k for 3 years.

1. Launchpad

Supporting budding entrepreneurs aged 16-25 to start a new business based upon their engineering innovation and maximise the chances of its successful growth. Winner receives a year's Membership of the Enterprise Hub including mentoring, training, networking opportunities with some of the UK's most successful entrepreneurs and investors, and a £15,000 prize.

2. SME Leaders programme

Supports promising leaders of high growth engineering SMEs. We aim to support the development of leadership skills through 4 main channels: Training courses and executive education (up to £15k), Masterclasses and workshops, personal mentors from the pool of Hub Mentors, and, Hub Membership.

3. Enterprise Fellowships

Provide funding and support to outstanding entrepreneurial engineering researchers, working at a UK university at postdoc level or above, to enable them to develop a spin-out business around their technological idea.

1 year up to £60k award: £35,000 for salary support and an additional £25,000 for continued development of the innovation and associated spin-out company.

Public Engagement

1. Ingenious Award

Supporting projects that engage the public with engineers and engineering, with the aim to stimulate engineers to share their stories, passion and expertise in innovative ways with diverse audiences. Award value £3-30k with costs including salary, consultancy, public engagement activity costs, materials, travel and subsistence. Open to Academia, Industry, and, Public sector.



International

1. Africa Prize for Engineering Innovation

Encourages ambitious and talented sub-Saharan African engineers from all disciplines to apply their skills to develop scalable solutions to local challenges. Crucial commercialisation support is awarded to a shortlist of innovative applicants through a six-month period of training and mentoring. £25k 1st Prize, and £10k for two runners-up.

2. Higher Education Partnership sub-Saharan Africa

Funds sub-Saharan based universities to address the engineering skills shortage in sub-Saharan Africa by forming and strengthening relationships between academia and industry, the programme aims to ensure that the higher education system in sub-Saharan Africa produces engineers with the skills and knowledge required to meet the needs of industry and to tackle local challenges. Support for travel, subsistence and salary support costs related to conducting visits and exchanges among industry and academic partners in Africa and the UK.

3. Distinguished Visiting Fellowships

Helps UK universities to build capacity and promote collaborations by facilitating visits by distinguished international experts. Award enables an engineering department in a UK university to be a host for a month (up to £6k) to a Distinguished Visiting Fellow from an overseas academic centre of excellence.

(note to self: DVF awardee welcome to say a few words at this point)

4. Frontiers of Engineering for Development

Series of interdisciplinary symposia that facilitates national and international collaboration to tackle global development challenges. The events bring together a select group of around 60 emerging UK and global engineering leaders from industry and academia to discuss pioneering technical work and cutting-edge research for international development. Seed funding is available to progress some of the best ideas coming out of the event. Award value up to £20k over 9 months. Next symposium in SA on 4 December 2017.

5. Newton Fund programmes

i) Leaders in Innovation Fellowships (LIFs)

Aim to build the capacity of researchers for entrepreneurship and commercialisation of their research. More broadly, the programme creates international networks of innovators and technology entrepreneurs. Award entails a select cohort of (15) researchers from partner country to benefit from a focused period of training in the UK, access to expert mentors, and opportunities for international networking. Long term benefit is on-going support at their home institution, and, access to an international network of peer innovators and mentors, in taking their commercialisation plan forward.

ii) Industry-academia partnerships

The programme is based upon the premise that deep, strategic links between industry and universities with long time horizons can foster use-inspired research and breakthrough engineering innovation. This programme also aims to create deeper ties between innovation stakeholders in the UK and partner countries. Award value £50k over 2 years.

(note to self: Newton awardee welcome to say a few words at this point)

Research

1. Research Fellowships

Supports exceptional early career academics to establish successful independent research careers and to encourage the best researchers to remain in the academic sector. 0-4 years since PhD; Award value £500,000 over the 5-year period, at 80% of full economic costs. Plus £25k/year to support international collaborations for GCRF RFs.

Success rate: 10%

(note to self: RF awardee welcome to say a few words at this point)

2. UK IC Postdoctoral Research Fellowships

Funds outstanding early-career research to address the needs of the intelligence, security, and defence community. 10 thematic topics, 0-5 years since PhD, award value up to £200k over 2 years, 80% of full economic costs.

Success rate: 10%

3. Industrial Fellowships Scheme

Enabling early to mid-career academics to undertake a collaborative research project in an industrial environment with the aim to strengthen the relationship between universities and industry and enhance teaching upon return. Award value up to £30k towards a teaching replacement for up to one year.

Success rate: over 20%

(note to self: IFS awardee welcome to say a few words at this point)

Research

4. RAEng/The Leverhulme Trust Senior Research Fellowships

Relieves academics of their administrative and teaching duties and enables them to concentrate on full-time research and to rejuvenate their research. Award value for up to £55k towards a junior academic replacement, with an additional £2,500 towards research costs. Up to one year.

Success rate: over 15%

(note to self: LTSRF awardee welcome to say a few words at this point)

5. Research Chairs and Senior Research Fellowships

Strengthens the links between industry and academia by supporting exceptional academics in UK universities to undertake use-inspired research that meets the needs of the industrial partners. Award for five years with up to £225k (£45k/year) towards gross salary, indirect cost and estates costs- this equates to a 1/3rd of 80% of full economic costs. Industrial sponsor to contribute at least £250k towards research project over 5 years.

Success rate: over 20%

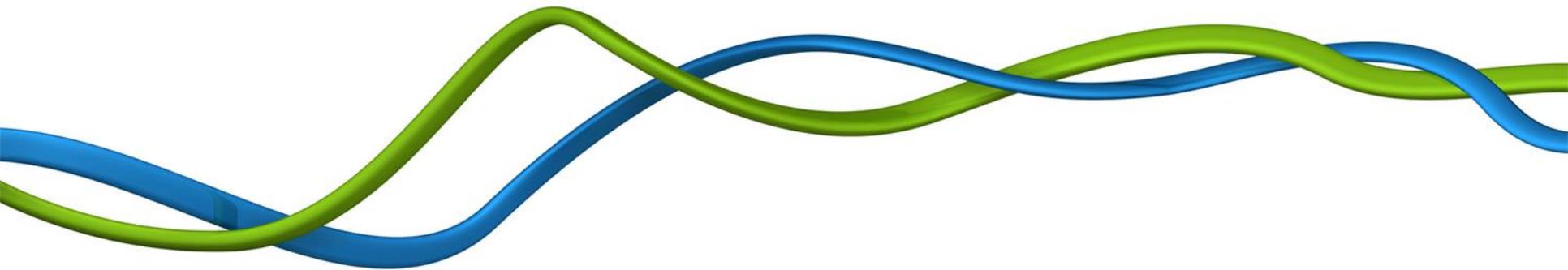
(note to self: RC awardee welcome to say a few words at this point)

6. APEX Awards

Provides established and proven engineering academics the opportunity to pursue genuine interdisciplinary and curiosity-driven research to benefit wider society. This scheme is run in partnership with the British Academy and the Royal Society. Award value up to £100k towards salary costs for up to 2 years.

Success rate: 5%

RAEng Tips and tricks



How to find the right scheme

- ❖ Research- what fits
- ❖ Talk
- ❖ Listen
- ❖ Apply
 - Be prepared
 - Determination
 - Resilient



To succeed

Person

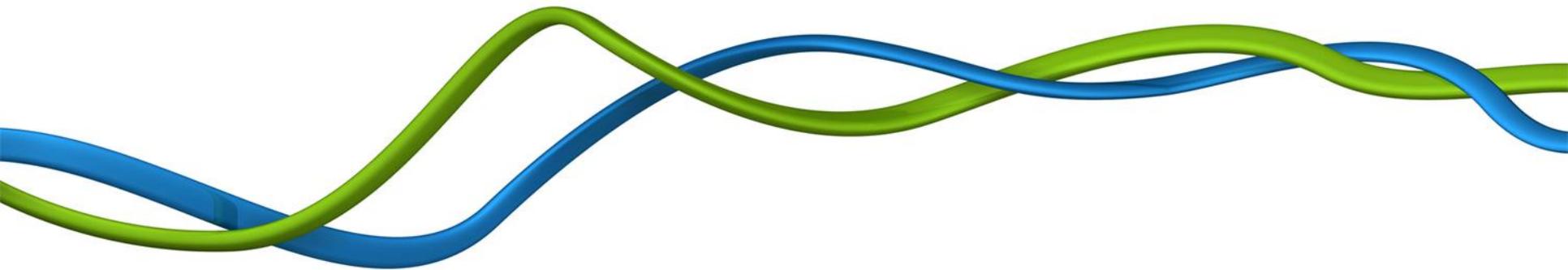
- ❖ Attention to detail
- ❖ Background, breaks, and relatability
- ❖ Ambition and the Goldilocks' rule

Project

- ❖ Background
- ❖ Unique, Novel, Timeliness
- ❖ Ambition and the Goldilocks' rule

Place

Thank you



Neeshé Khan

Programmes Manager