

Impact of Giving

Summer 2021

Your support of the Royal Academy of Engineering is making a powerful difference for the engineers and innovators of today and tomorrow

Your generosity in numbers

Thanks to you, the Academy has raised **£2,936,438** in FY20-21

% of total raised from:



In the last three years:



From FY20-21 to date, we have:



A message from our President

I am delighted to introduce the Royal Academy of Engineering's first annual report recognising the impact of donations and corporate support at the Academy.

The breadth of programmes and activities presented in this report demonstrate just how vital philanthropic and corporate support is to our work at the Academy. Gifts from Fellows and friends, support from corporate partners and universities, and grants from charitable trusts and foundations have a huge impact on what we do. Donations enable us to achieve so much more, from supporting engineering and technology innovations in the UK and Africa, to encouraging school students to study science, technology, engineering and maths (STEM), to driving an engineering perception change campaign to get more diverse groups into engineering. Without these contributions, the Academy would not be making the significant societal impact that we have been able to achieve. Thank you.

Every single member of our supporter community plays a vital role. From our corporate partners, Fellow and non-Fellow volunteers, to those who have chosen to leave a bequest to the Academy or make the Exceptional Pledge – you are a member of an important community of change-makers. On behalf of everyone at the Academy, thank you for your generosity and continued support of tomorrow's engineering trailblazers and innovators, working to solve complex global challenges.

Professor Sir Jim McDonald FREng FRSE
President, Royal Academy of Engineering



Impact in numbers

As a charity, your support of the Academy is extremely valuable. With your help, we are harnessing the power of engineering to build a sustainable society and inclusive economy that works for everyone.



Navigating the challenges of COVID-19

There has never been a more urgent time for engineering expertise. The COVID-19 pandemic required us to change our ways of working and has affected the Academy financially, including income received from Prince Philip House as a venue and uncertainties in partner funding. However, our staff teams quickly adapted, delivering our ambitious activities predominantly online. Our COVID-19 Positive Response programme played a proactive role in helping coordinate the engineering community's contribution to addressing the pandemic. We provided brokerage, policy advice and expertise to government on supply chain challenges, reducing hospital-acquired infection and building future resilience, and funding and support through grant and delivery programmes.

Our call for ideas, advertised through the professional engineering institutions, yielded over 500 ideas, innovations and offers of help.

Project CARE (COVID-19 African Rapid Entrepreneurs)

COVID-19 caused widespread repercussions across the world. In many African regions, the density of urban populations and lack of adequate hygiene and healthcare present even more extreme challenges.

Project CARE mobilised the Academy's alumni of African-based entrepreneurs and leveraged the Fellowship and its networks. The aim was to help strengthen capacity and provide resources to address the consequences and impacts of COVID-19 in African communities in a constructive and sustainable way. We provided alumni with materials, equipment, and a toolkit to manufacture masks and visors that met the national regulatory standards where the entrepreneurs are based.

Ten entrepreneurs were also funded to pivot or scale their businesses, including manufacturing hand sanitiser to WHO standards in Nigeria (over 70,000 people reached) and a platform for real-time contract tracing and to disseminate health information in Kenya (93,000 check-ins). We are grateful to individuals and trusts for supporting Project CARE, which has helped communities across sub-Saharan Africa.



CARE-Soft mask

"We just delivered our first 100 CARE Mayku masks to the University of Pretoria and will deliver our next 400 in January. They will be used as part of a community project to test for antibodies (TB and COVID-19)."

Andre Nel, South Africa, quoted in late autumn 2020

Agility to seize opportunities

Now more than ever before, unrestricted donations are so crucial because they allow funding to go directly and flexibly to our areas of greatest and immediate need. In recent years, unrestricted gifts have supported vulnerable programmes such as our *This is Engineering* campaign, which was impacted by uncertainties in vital corporate partner funding caused by COVID-19. Donations from our 2020 Annual Appeal, which raised over £55,000 (inclusive of Gift Aid) from Fellows, currently provide much-needed investment in our Enterprise Hub, enabling us to help engineers and innovators solve complex societal challenges. We are very grateful to donors who give through our appeals, regular donations and make one-time gifts – you are helping us respond to emerging priorities quickly.



“

I donate to the Academy because I believe strongly in its aims to advance engineering's contribution to society.”

Charles Betts CB FREng, a valued donor who has also left a gift in his will to the Academy.

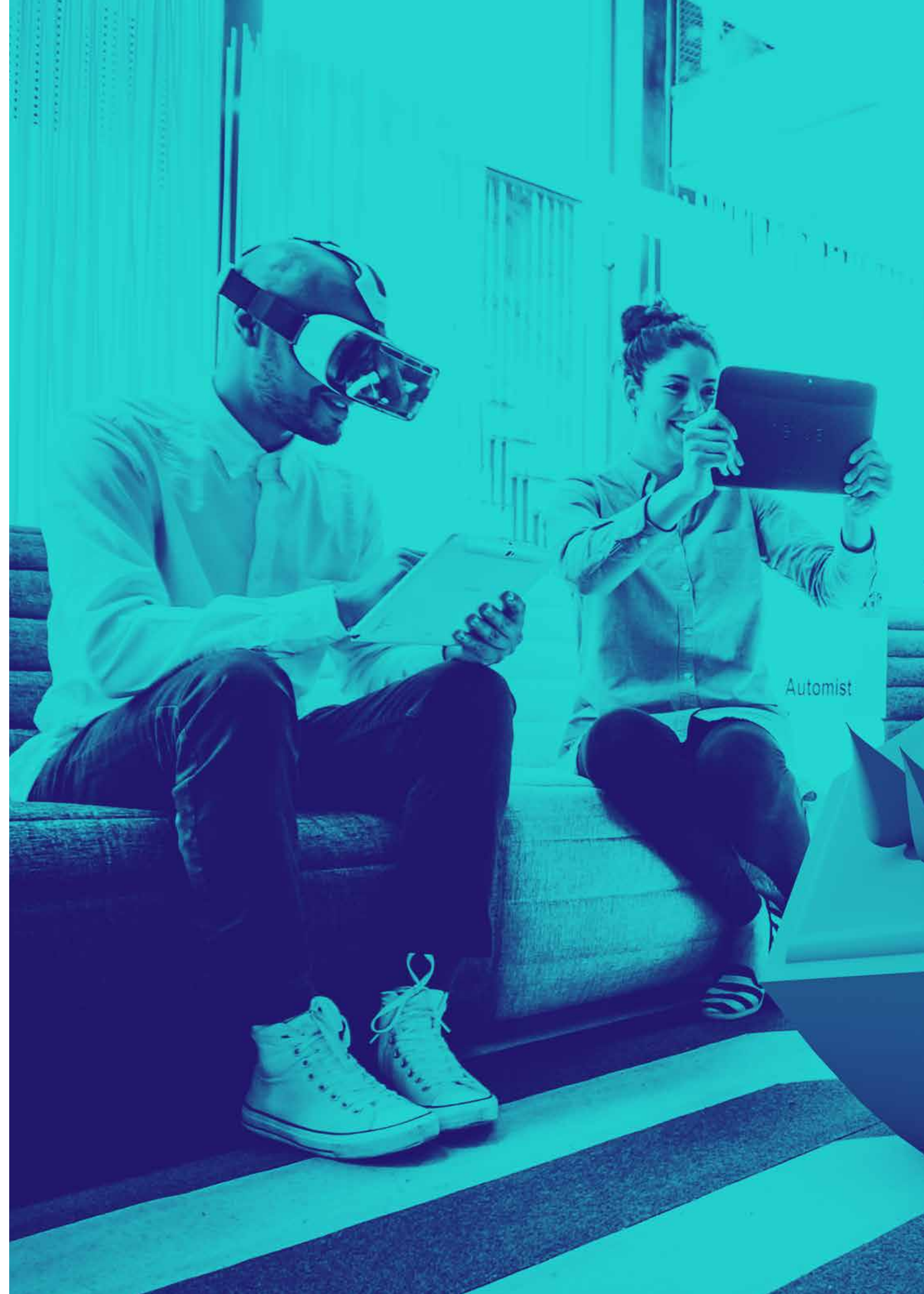
2018 to 2020
President's Annual Appeal snapshot:

2020
84 GIFTS

(190% increase in participation)

2019
29 GIFTS

2018
39 GIFTS



Growing talent and diversity

There is a UK shortage of up to 59,000 engineers annually. Your support is making an immediate impact, allowing us to discover engineering talent from all backgrounds, and develop skills needed to build a resilient and diverse engineering profession.

Connecting STEM Teachers (CST) to support school students

Launched in 2011, the Academy's flagship CST programme supports a network of teachers across STEM subjects, ensuring they have the knowledge and confidence to engage a wide spectrum of school students with STEM education and careers awareness.

CST celebrates its 10th anniversary in 2021. We are grateful to Shell UK (and formerly BG Group), which has funded CST since its inception and remains a strategic partner and funder. Shell's long-term commitment is testament to the programme's achievements and impact: CST now has 50 teacher coordinators supporting a network of over 1,400 teachers, in nearly 1,000 schools across the UK. This means the number of STEM experiences it has provided to students has grown to an estimated 150,000 a year (2021). In response to COVID-19, an additional 17,500 individual STEM resource packs were posted to students for remote learning or in socially distanced classrooms.

CST is also generously supported by: Amazon, The Arthur Clements Fund, Boeing, the estate of the late Mr John Gozzard, the Helsington Foundation, and the Royal Air Force.



The late Herbert Arthur Clements CBE FREng

A legacy for a lifetime

Over the years, we have received a small number of remarkable legacy gifts from Fellows and friends. A substantial bequest from the estate of Herbert Arthur Clements CBE FREng helped grow the recruitment of teacher coordinators in regions of low social mobility, encouraging more diverse young students to study STEM subjects. Mr Clements, who passed away in June 2016, was a successful engineering entrepreneur, distinguished for developing a SSS (Synchro Self Shifting) Clutch used in marine propulsion and power generation.

His children, Caroline Egleston and Nicholas Clements, told us how they felt about their father's legacy: "Our father believed young people should be encouraged to study what he described as 'the art of engineering', a creative career that can improve so many lives."

Legacy gifts can have an incredible impact. If you would like more information about leaving a bequest, please contact the Development team.



Did you know a single STEM resource box costs £100 to produce? The more boxes we distribute, the more students we can engage with STEM subjects. Our aim is to tackle the shortage and significantly increase the number of engineers in the UK.



Graduate Engineering Engagement Programme (GEEP)

GEEP aims to increase the proportion of graduates from underrepresented backgrounds transitioning into engineering employment.

Damilola Fari-Arole is one of almost 300 GEEP alumni to have taken up employment opportunities after the programme, joining Network Rail on a graduate placement in October 2016. She worked in a variety of technical and functional roles in different business teams, including asset management, maintenance and operations, and in-design delivery.

GEEP supports students like Damilola by developing their understanding of engineering careers, building their skills, increasing their networks and social capital, and providing direct engagement with working engineers.

We are committed to supporting companies to build more inclusive workplaces and helping students access engineering opportunities. If your organisation might be interested in joining GEEP, please contact the Development team.



Damilola Fari-Arole



The programme gave me an opportunity to expand my network within the industry and gain valuable insight into some of the top engineering firms — allowing me to make informed choices when applying for roles in the industry."



New bursary in partnership with Amazon

In May 2021, we launched our Amazon Future Engineer bursary scheme. Aimed at women, it supports students from low-income households, who will be studying an eligible computer science or related engineering course at a UK university, starting in 2021.

The scheme addresses underrepresentation and accelerating the rate of progress. It can be used to cover expenses related to attending university including tuition fees, accommodation and living costs. The scheme supports students who demonstrate a drive and passion for computing and engineering, and an understanding of how innovation and creativity in these fields can help solve some of the world's greatest challenges.

Twelve awards, worth £5,000 a year for up to four years, will be available to women progressing from either A levels/Scottish Highers in STEM or full-time BTEC/OCR (or Scottish equivalent) and technical courses such as computer science to university.

Sir Ralph Robins Scholarship

The Sir Ralph Robins Scholarship was set up in recognition of Sir Ralph Robins FREng, past Chairman of Rolls-Royce plc, and his exceptional contribution to engineering and industry, generously supported by Rolls-Royce plc, friends and former colleagues of Sir Ralph, and charitable trusts. An additional £5,000 is provided to three Engineering Leaders Scholars, to put towards undergraduate tuition fees, and a possible internship at Rolls-Royce. The scholarship provides students from underrepresented and underprivileged backgrounds with life-changing opportunities. Recipient Matthew Uren, based in Manchester and studying aerospace engineering, said:



I never imagined I would be at university studying engineering, as I originally trained to be an HGV mechanic. The fact this scholarship exists for students like me, who come from non-academic backgrounds, will only serve to motivate more students into studying engineering, who may not have had the opportunity previously."



Matthew undertook a 12-month industrial placement at Rolls-Royce plc.

With nine awards to date, the 2021/22 recipients are:

Ryan Margetts, civil engineering,
University of Plymouth
Mariyam Bi, chemical engineering,
University of Sheffield
Ninett Andreli,
electronic engineering,
University of Glasgow

The Hamilton Commission

In 2020, Sir Lewis Hamilton MBE HonFREng, seven times Formula 1 World Champion and Honorary Fellow, formed the Hamilton Commission, a research project to identify key barriers to education progression and recruitment of young Black people in UK motorsport. The Commission, co-chaired by Sir Lewis and Academy CEO Dr Hayaatun Sillem CBE, has made recommendations that a new foundation, established by Sir Lewis and Mercedes-AMG Petronas, will help to progress.

Published in July 2021, the Commission's research findings touch on various themes but are rooted in systematic issues within the education system that cause barriers for young Black students to pursue STEM subjects, including engineering. Its research shows Black students are less likely to take up the triple science GCSE, and that there is a lack of Black role models in STEM teaching in schools, as well as lack of knowledge among Black students about the careers engineering can lead to. For the full report visit www.hamiltoncommission.org/the-report.



Sir Lewis visited the Academy in 2019 after his election as an Honorary Fellow

Driving innovation

Your support is making an impact, providing vital investment in some of the most talented engineers, innovators, entrepreneurs, and researchers in the UK and internationally to deliver societal benefit.



Charlette N'Guessan

Stimulating scalable engineering innovation in Africa through the Africa Prize for Engineering Innovation

In 2020, 26-year-old Charlette N'Guessan became the first woman to win the Africa Prize. Based in Ghana and originally from Côte d'Ivoire, Charlette and her team developed BACE API, a software system that uses facial recognition and artificial intelligence to verify identities remotely and in real time. The software can be integrated into existing apps and systems and is aimed at financial institutions and other industries that rely on identity verification to provide services.

In the past, the Africa Prize was funded by the UK government, through the Global Challenges Research Fund, and philanthropy, thanks to the generosity of the Shell Centenary Scholarship Fund and private donors. Recent cuts to the government's aid budget mean that this programme has an uncertain future. We strongly believe that accelerating progress towards a sustainable society must be considered in a global context to be meaningful, and we are grateful to the individuals and organisations who have supported the Africa Prize to date. If the programme's work inspires you and you would like to support Africa's entrepreneurs to solve some of the greatest challenges of our time, we would very much welcome your support. Please contact the Development team.

Recent universal funding cuts mean that this programme is in even greater need of support.



The MediSieve team

Enterprise Hub – fostering UK engineering entrepreneurship

The Enterprise Hub's goal is to encourage creativity and innovation in engineering for the benefit of all. By fostering lasting, exceptional connections between talent and expertise, we aim to create a virtuous cycle of innovation that can deliver on this ambition. Thanks to the generous support of our funders, partners and individual donors we have helped almost 250 entrepreneurs start up, spin out and scale up. Hub members provide critical contributions to solving society's challenges and economic recovery post pandemic. They are at the heart of building an inclusive and sustainable society.

Hub members Dr George Frodsham and Dr Cristina Blanco Andujar of MediSieve developed a groundbreaking magnetic blood filtration tool that won a £1.6 million COVID-19 grant from UK Research and Innovation.

George and Cristina said: "This grant will support the very first clinical trials for our IL-6 removal product, which could bring significant benefits to a wide range of patients, including those suffering from severe COVID-19. The Enterprise Hub has provided us with the platform, support and networks we need to face the challenges of growing our company. A big thank you."

Hub's impact 2020 to 2021:

The first regional hub launched in Belfast to foster talent in Northern Ireland.

Hub companies secured £103 million in follow-on funding and created 506 new jobs.



Forging global partnerships through Engineering X

Engineering X, founded in partnership with the Lloyd's Register Foundation (LRF), is a major international collaboration that brings together some of the world's leading problem-solvers to address the great challenges of our age.

Thanks to LRF's significant support, our global network of expert engineers, academics and business leaders are tackling pressing engineering, safety and sustainability problems through grant-supported impact projects, including improving safety of complex systems, addressing challenges of end of engineered life structures and products, and

examining the engineering skills capacity challenges in emerging economies.

They are developing practical, sustainable and accessible solutions for the engineering profession worldwide.

In response to COVID-19, the Pandemic Preparedness programme was launched, providing grant schemes to fund innovative engineering such as infection control and medical innovations.

Going forward, Engineering X is seeking new partners to broaden and deepen the programme's reach and lasting impact across the world.

Engineering X



Influencing policy and inspiring the next generation

Your support is already making an impact, changing perceptions of engineering. But, we also shape policy for everyone's benefit.



National Engineering Policy Centre (NEPC)

Since 2019, the NEPC, representing 43 professional engineering organisations, has connected policymakers with critical engineering expertise, informing and advising on issues of national importance. The NEPC provides policymakers with a route to credible independent advice, by leveraging the breadth and depth of expertise from across the whole engineering profession, including Academy Fellows. Throughout the pandemic, the NEPC has published advice in a rapid and agile manner and strengthened its reputation for excellence by publishing high-quality, evidence-based reports on issues such as net zero, sustainability and resilience. The NEPC's profile has continued to grow, in particular with government, where the benefits of engineering in policymaking are now increasingly recognised. To date, the NEPC's valuable work has been financially supported by government and the ERA Foundation and it remains a priority funding area for the Academy. The ambition is to secure and grow the NEPC's engineering expertise within policymaking; ready to respond at pace and with depth to ongoing and future global challenges.



This is Engineering (TiE)

Our multi-year digital campaign is opening the eyes of millions of teenagers to the exciting possibilities of engineering, challenging preconceptions and showing how engineers from all backgrounds are making an impact. Since launching in 2018, the campaign films have been watched over 50 million times and our most successful content has increased consideration of engineering as a career for young people by 85% – with up to 71% of teens from different backgrounds taking action as a result. TiE, which is solely funded by philanthropy and corporate support, faces uncertain funding because of the pandemic. Thanks to the generous support from our funders and partners, the campaign continues to make a strong impact by harnessing social media's power. However, to maintain its impact ongoing support is vital. To view the latest videos featuring three inspirational women 'Engineering Heroes', visit www.thisisengineering.org.uk/heroes.



Milly Hennayake, Flood Fighter, civil engineer at Arup, 2020 TiE Be the Difference ambassador

Our late Senior Fellow, HRH The Prince Philip, met with students from Lambeth College at Prince Philip House, who were undertaking engineering projects.



Honouring the legacy of our Founding Senior Fellow

We will always be indebted to our late Senior Fellow, HRH The Prince Philip, Duke of Edinburgh, for his passion, support and advocacy for engineering, which led to the Fellowship's formation. To honour his vision and legacy, we have established the Prince Philip Fund to exist in perpetuity to meet critical capital needs and secure the Academy's home at Prince Philip House, Carlton House Terrace, London, for future generations. The fund will rely on continued philanthropic support to ensure that Prince Philip House remains a hub for engineering excellence for the next 50 years and beyond. Thank you to Fellows and friends who have already made a gift and to our community for sharing personal memories of HRH for posterity. Prince Philip's legacy will always be felt in these important ways, as well as through the Prince Philip Medal, which recognises exceptional contributions to engineering through practice, management or education. This year, we also celebrated the 30th anniversary of the Prince Philip Medal, with Dr Gladys West becoming the first woman to receive the medal for her contribution in the development of GPS.



“

Of my many good memories of Prince Philip and his associations with engineering, perhaps the most vivid are from 11 June 1976, which I still think of as Founders' Day. What a privilege it was to be greeted by Prince Philip at Buckingham Palace.”

Professor John Caldwell OBE FREng,
our last remaining Founding Fellow



Inaugural 1976 meeting of the then Fellowship of Engineering

Thank you from our CEO

I am so inspired to read all these stories in our first donor impact report. Every area of our work at the Academy has been touched by philanthropy and corporate funding and we are incredibly grateful to all the individuals, trusts, foundations, and corporates who have supported us.

Philanthropic and corporate support enables us to broaden the scope of our work and lessen our reliance on government funding, which is even more crucial now in times when public funding commitments are inevitably uncertain.

Our supporter community is a growing group of individuals and organisations who believe in the power of engineering to build a sustainable society and inclusive economy that works for everyone. The following pages recognise the individuals, trusts, foundations, and corporations that provide generous support to the Royal Academy of Engineering. Thank you for your invaluable contributions, which enable us to achieve the volume and variety of impacts referenced in this report. I very much hope that you are also inspired by what you read about in this report and will continue to champion the Academy in the years to come.



Dr Hayaatun Sillem CBE
CEO, Royal Academy of Engineering



Our work would not be possible without the generous contribution of our community. We are delighted to acknowledge your support in our donor roll:

Organisations and universities that have supported us in the last three years:



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Amazon Future Engineer Bursary Programme
Connecting STEM Teachers
This is Engineering
- Shell:**
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Graduate Engineering Engagement Programme
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Graduate Engineering Engagement Programme
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Programme funders

Aecom: Graduate Engineering Engagement Programme	Leonardo: Graduate Engineering Engagement Programme
Amey: Graduate Engineering Engagement Programme	Metaswitch: Graduate Engineering Engagement Programme
Arup: Ingenia magazine	Network Rail: Graduate Engineering Engagement Programme
Atkins: Graduate Engineering Engagement Programme	QinetiQ: Enterprise Hub
Beacon Capital: Enterprise Hub	Rockspring: Enterprise Hub
Buro Happold: Graduate Engineering Engagement Programme	Roke: Graduate Engineering Engagement Programme
Chapmanbdsp: Graduate Engineering Engagement Programme	Royal Fleet Auxiliary (Ministry of Defence): Graduate Engineering Engagement Programme
GSK plc: Graduate Engineering Engagement Programme	Weir Group: Enterprise Hub Forum for Engineering
Jaguar Land Rover Ltd: Awards Dinner 2018	WMG: Ingenia magazine
KBR Inc: Graduate Engineering Engagement Programme	

University partners

Principal university partners

University of Leeds:
This is Engineering

University of Oxford:
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Major university partners

Anglia Ruskin University:
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Imperial College London:
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Manchester Met University:
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University of Exeter:
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University of Glasgow:
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University of Southampton:
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University of Strathclyde:
Areas of greatest need

Support from charitable trusts and foundations:

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The Ezrah Charitable Trust
Sir John Fisher Foundation
The Gatsby Charitable Foundation
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The Michael Bishop Foundation
The Panasonic Trust
Lloyd's Register Foundation
Motorola Solutions Foundation
The Royal Commission for the Exhibition of 1851
Shell Centenary Scholarship Fund
The Worshipful Company of Engineers

Support from our Fellows, friends, awardees and Academy staff as well as our late Fellows and friends who left a legacy to the Academy in the last three years:

Major donors

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With additional thanks to our major donors who wish to remain anonymous

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Bequests generously gifted by Fellows and friends

The late Geoffrey Argent FREng
The late Herbert Clements CBE FREng
The late John Gozzard
The late Dr Michael Reece FREng
The late Lady Brenda Rooke
The late Dr Janet Wolf

Heritage Society - we established this society to recognise Fellows and friends who have chosen to leave a gift in their will to the Academy. We are very grateful to the 20 Fellows who have made a provision in their will to support the next generation of engineers and engineering.

Enterprise Hub Exceptional Pledgers

Dr Felicity de Cogan
Alexander Reip

Looking ahead - continue to help us make a difference

We hope you have felt inspired by our work to advance engineering's contribution to society and the impact your generosity is making.

As we look to the Academy's 50th anniversary in 2026 and beyond, fundraising will play an even more significant and powerful role in our activities, enabling us to have a greater reach in society. If you would like to make a gift and continue to help us make a difference, please visit www.raeng.org.uk/make-a-gift

If you would like to learn more about how philanthropy and sponsorship is making a difference, contact: development.team@raeng.org.uk or visit www.raeng.org.uk/support-us

For more information about our programmes and projects visit:

COVID-19 response:

www.raeng.org.uk/policy/engineering-response-covid-19-coronavirus

Talent and diversity:

www.raeng.org.uk/education

www.raeng.org.uk/diversity-in-engineering

www.raeng.org.uk/grants-prizes

Innovation:

www.raeng.org.uk/global

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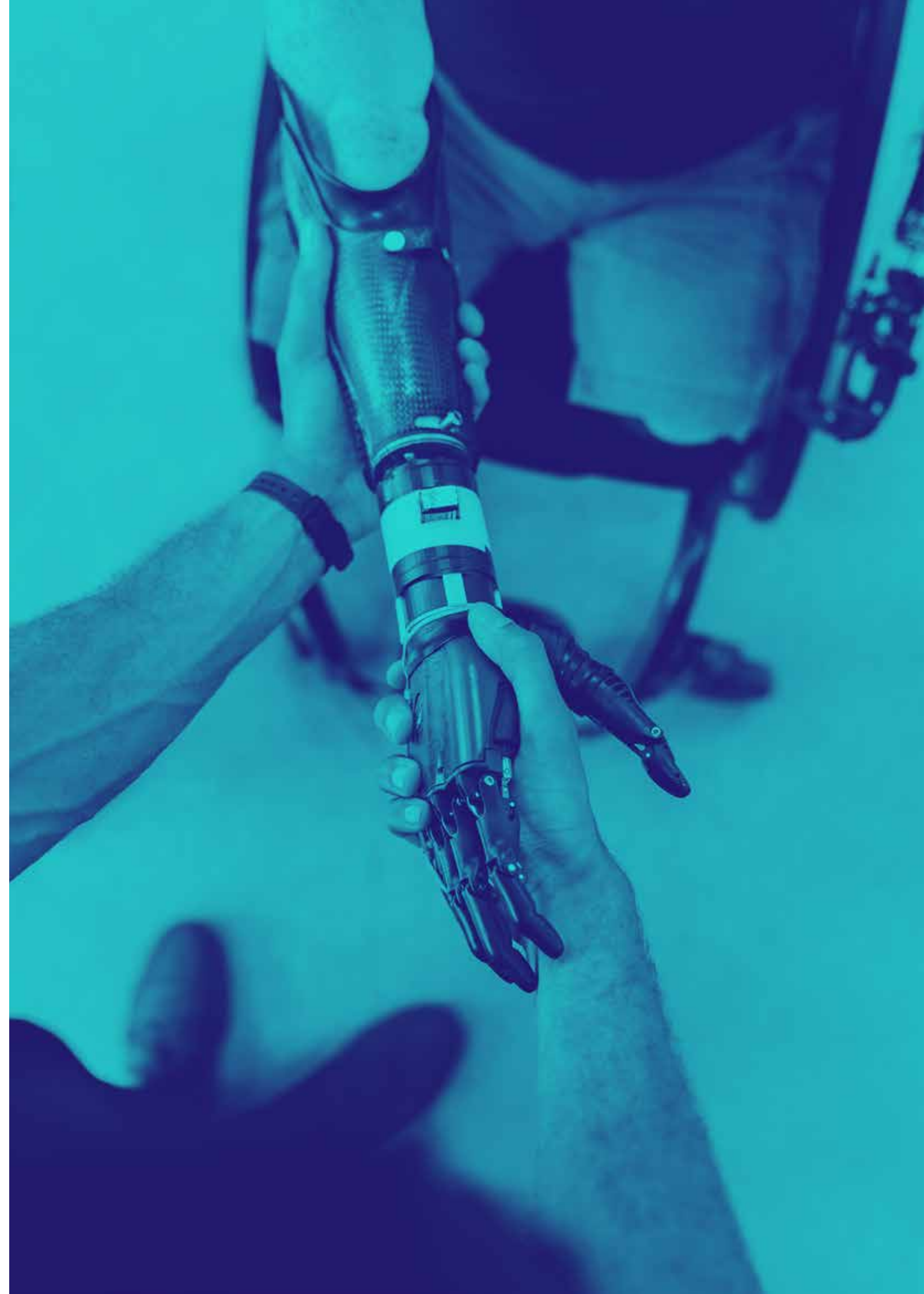
Public engagement and policy:

www.thisisengineering.org.uk

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The Royal Academy of Engineering is harnessing the power of engineering to build a sustainable society and an inclusive economy that works for everyone.

In collaboration with our Fellows and partners, we're growing talent and developing skills for the future, driving innovation and building global partnerships, and influencing policy and engaging the public.

Together we're working to tackle the greatest challenges of our age.

What we do

TALENT & DIVERSITY

We're growing talent by training, supporting, mentoring and funding the most talented and creative researchers, innovators and leaders from across the engineering profession.

We're developing skills for the future by identifying the challenges of an ever-changing world and developing the skills and approaches we need to build a resilient and diverse engineering profession.

INNOVATION

We're driving innovation by investing in some of the country's most creative and exciting engineering ideas and businesses.

We're building global partnerships that bring the world's best engineers from industry, entrepreneurship and academia together to collaborate on creative innovations that address the greatest global challenges of our age.

POLICY & ENGAGEMENT


We're influencing policy through the National Engineering Policy Centre – providing independent expert support to policymakers on issues of importance.

We're engaging the public by opening their eyes to the wonders of engineering and inspiring young people to become the next generation of engineers.

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Cover image is Aurelia Specker, a code creator, software engineer at Twitter and protagonist in the Academy's *This is Engineering* campaign.