

Our impact in 2021-2022



Human Development



Futures



Education



Thinking

Our Focus Areas

The Happold Foundation is dedicated to making a positive impact on people's lives through engineering and design of the built and natural environment. We plan initiatives, allocate resources, and contribute knowledge across four focus areas. Combating inequality and exclusion, and climate action, are at the centre of all our activities.



Human Development

Supporting our partner organisations who work with communities in under-developed areas on high quality engineering projects that improve health and wellbeing. They also provide training programmes to provide men and women with the skills to adopt new technology, earn a living, and maintain the running of the infrastructure.



Futures

Our Futures focus introduces pupils aged 6-18 to Engineering, Maths, Science and Technology. We engage with partner organisations who work with teachers and schools to run exciting, hands-on education programmes that teach children about sustainable design in the natural and built environment.



Education

Our Education work supports undergraduate students who want to pursue a career in engineering and design, through funding scholarships and awards. We also celebrate academic teaching excellence through our awards programme.



Thinking

Our Thinking offer brings together people from all over our industry to discuss, debate and share knowledge on issues society is facing, the impact it is having on our cities and infrastructure, and how engineers will respond to these issues, with particular focus on climate change, health, and sustainable development. We facilitate events, workshops and lectures.

Welcome to our 2021 - 2022 Impact Report.

Over the next few pages, we'll highlight some of the important work that our partners have undertaken during 2021 and 2022. These include projects carried out in Africa and Nepal by Renewable World, school projects by Matt + Fiona in London, the mentorship program by ACE in the USA and our City Conversation events, which have continued to reach a global audience. Working alongside the Women's Engineering Society, we were able to host The Happold Lecture, our first in person event for two years.

During 2021 we undertook a review of our activities and how they fit with our rapidly changing world. Following a series of interviews with key people from across the globe, we formulated a plan for how we can future proof our offering, ensuring our support is reaching the right organisations.

The review has seen us restructure our Futures grant giving process and our undergraduate scholarship programme to better support those who will benefit from the funding most.

I would like to extend our gratitude to all our trustees and partner organisations for the hard work and dedication they have shown. We are proud to be able to support so many fantastic and valuable projects.

Ian Maddocks

Chair, Happold Foundation

Looking forward – our 2021 review

During 2021 we carried out a thorough review of our focus areas and the support we offer. We spoke to HF trustees and Buro Happold staff in offices around the world, asking for their feedback on our work and its impact. The review considered some key themes, including the climate crisis, how we target resources, our global reach and inclusion and equity.

Key Recommendations:

- Focus areas are good, continue working around these themes.
- Our funds should be deliberately and carefully targeted to have maximum impact, based on a clear strategy for what that impact should be.
- Partner with organisations that have the resources and network to reach those who would benefit most from Foundation support.
- Establish locally led foundations
- Embed Climate Action and Equity in everything we do
- Improve communication and staff engagement

In 2022-2023 The Happold Foundation will get to work setting these recommendations into practice.



HUMAN DEVELOPMENT



OUR IMPACT:

£60,000 funding

2 Organisational Grants

Our work in Human Development focuses on helping communities to access invaluable services to help them improve their futures. We provide funding to organisations that carry out initiatives we feel can make a significant positive impact on the communities they work with. Our Organisational Grant scheme provides chosen organisations with £30k per year for three years, allowing them to strategically improve their projects and the support that they can offer.

2021 saw the third and final year of Organisational Grant support for our current partners, Renewable World and Build it International.

Renewable World

Renewable World provide energy, water and clean cooking solutions to remote communities in Nepal and Kenya. Their projects involve installing renewable technology for utilities and a training programme to educate households in how to use and maintain the systems. The organisation has been working tirelessly to keep their projects on track, despite the challenging conditions created by the pandemic.

2021 saw the organisation complete projects in Kenya and set up five new projects in Nepal, as well as strengthening governance and organisational policies and procedures.



Solar Energy for Community Resilience (SECuRe)
Renewable World, Nepal*

Current projects in Nepal include work to treat and reduce respiratory disease caused by using dirty fuel for cooking, creating access to a range of clean energy solutions, improving food security and providing opportunities for sustainable incomes.

In Kenya, work to increase access to clean, renewable energy to the shores of Lake Victoria. The work focuses on the installation of solar microgrids, which bring community-owned and managed renewable energy and opportunities to enhance and diversify livelihoods. The team has also installed three solar microgrids in two communities, which have allowed energy to be provided to facilities such as a pharmacy and a school.

Build It International

Build It International run vocational training for young people in Zambia. Their training centre teaches practical skills in the construction industry, offering young people with lifelong career opportunities to support themselves and their families, as well as building new clinics and schools.

2021 was a difficult year for many people in Zambia. The country experienced its most severe wave of Covid-19 so far, with both the Delta and Omicron variants sadly affecting many lives. Yet despite these challenges, they still achieved so much, including:

- Delivered 10 training courses across two vocational training pathways
- Trained a total of 234 Zambian youth in construction skills, with 94% completing the course
- Successfully delivered a new floor and wall tiling pilot course
- Completed construction of the organisation's new Zambia Office at the Centre for Excellence
- Launched a new 'Women Empowered into Work Strategy & Programme'.

Looking Forward: Launch of Organisational Grant Series Two

In January 2022, a review panel was formed and the selection process for 2022-2024 was launched. We are very excited that we could expand the core grant giving to three organisations. We received an amazing response, making it very difficult to choose but a short list of six were selected and invited to an interview. After much deliberation, three organisations were chosen for the second organisational grant series. They are [Build It International](#), [Renewable World](#) and [Reall](#). We look forward to working with our partner organisations over the next three years.



Students studying at Build It's Centre for Excellence, Zambia



FUTURES



OUR IMPACT:

£56,000
grant funding

Worked with **6**
partner
organisations

Worked in **2**
countries

Opening up opportunities for young people to discover their future in engineering is a key focus of our work at the Happold Foundation. We believe that by supporting young people from age 5 to 18, we can help to introduce the possibility of a career in the built environment for children from diverse backgrounds. We work to carefully select organisations who run projects that are socially inclusive and bring a wider benefit to their communities.

Our UK partners

- Matt + Fiona
- City of Play
- Arkwright
- Enabling Enterprise

North America partners

- ACE Mentorship program, NYC and LA
- The Intern Project, in partnership with the LA Promise fund, LA
- Paul Revere Williams Day event in LA

As well as these programs, we are looking to support several other education projects in North America in 2022/2023.

ACE Mentorship Program

The ACE Mentorship Program is an after-school program for High School students interested in careers in architecture, engineering and construction. The scheme supports up to 30 students per year in New York and Los Angeles,



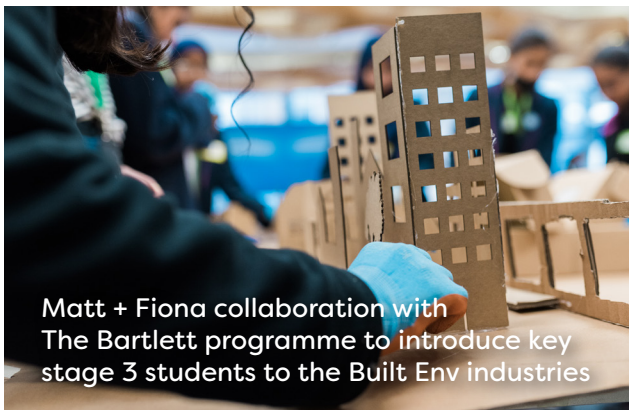
USA, with up to 10 mentors from the design and construction industry working to guide them through the fundamentals of the build environment industry. During their time undertaking the program, students also developed a design project to present to family and peers.

The Happold Foundation provided two \$2000 scholarships for graduating senior students to join the mentorship program. In addition, members of the Happold Foundation and Buro Happold team offered their time as mentors and assisted in a mock interview day.

Matt + Fiona

The Happold Foundation have been working with Matt + Fiona since 2019. The organisation works with young people in schools to design their own spaces, from conception through to completion.

Their projects have continued to grow and flourish since they have been able to restart following the pandemic. Projects have included workshops for children, educational build products, CPD and training for teachers and running accreditation course for architecture students and architects.



Matt + Fiona collaboration with The Bartlett programme to introduce key stage 3 students to the Built Env industries

Looking Forward to 2022: Launch of Futures Organisational Grant

The Happold Foundation has supported many initiatives over the years that are doing great work in schools and after school events, igniting a passion in students to the natural and built environment.

We are aware of how difficult it is for non-profit organisations to continue their good work in times of financial downturn, and the exceptional circumstances of the last two years highlighted this more than ever. We felt it was important to change our funding model so that the charities we sponsor have that security and support.

We have therefore introduced a new Futures Organisational Grant scheme for 2022. The grant provides £30,000 per year for a three-year period to an organisation that works in areas of education (Year 1-13) and the built environment. We are particularly keen to support organisations which approach these areas in ways which put combating inequality and exclusion, as well as climate action, at the centre of their work. Funding is unrestricted and may be spent on anything the not-for-profit organisation deems appropriate and effective. An announcement of this year's 2022 grant partnerships will be made later in the summer, with the first year grant starts in August 2022.



EDUCATION



OUR IMPACT:

£28,500
funding

7
Scholarships

1
Ted Happold prize

Enabling the students studying to become the next generation of engineers is a key focus of our work at the Happold Foundation. We work to provide undergraduate students completing a degree in the design in the built environment sector with both financial support while they're studying and opportunities to gain real life work experience.

Our partners and projects

- **RAEng/Happold Scholarship**
- **Post Graduate support: MSc in Engineering and Education, with a thesis which will focus on Apprenticeships in the UK Consulting Engineering sector**
- **University of Bath Happold Prize**
- **Happold Brilliant Prize**

University of Bath Ted Happold Prize

The Ted Happold Prize celebrates the rich talent and innovative building design thinking that is being produced by the fourth year design students at the Department of Architecture and Civil Engineering at the University of Bath.

In this year's brief, titled 'Diasporas', students responded to one of society's most difficult challenges - the dispersion of people from their homeland. Their project was to design a Migration Museum to be housed on a site opposite London's Kings Cross Station. The teams were tasked with designing a building that could contain a series of exhibition spaces that embodied the museum's values.

28 groups of between six and seven students from both architecture and engineering courses entered

their designs. Third prize was awarded to Group 12 for their project named Artefact and second prize was awarded to Group 2, for their project Eclectic. The winning design was from Group 14: Lingua, who's theme was focussed on how language barriers can impact on jobs, social mobility and education. Their exhibition looks at the various forms language can take, such as film, art and music.

Reviewing our Scholarship programme

In previous years, we ran our own scholarship programme, which provided students funding towards their education and a paid work experience placement at Buro Happold Engineering. Over the last five years, 50% of our scholars have been women, working towards our aim to enhance diversity in the engineering sector.

As part of the review of our services in 2021, we decided that we wanted to further raise diversity, we needed to rethink our scholarship offering. This led us to forming a partnership with the Royal Academy of Engineers to launch a new and exciting programme starting in 2022.

RAEng scholarship programme

The Royal Academy of Engineers, Engineering Leaders Scholarships (ELS) programme provides support for UK undergraduates who show the potential to become leaders and innovators in engineering and the ability to act as role models for future engineers. The Happold Foundation are sponsoring six scholars as part of the RAEng ELS programme.

THINKING



CO₂
NEUTRAL



OUR IMPACT:

£20,000
funding

6 City
Conversation
events held

→ Hosted the
Happold Lecture

At the Foundation we work to encourage education, discussion and debate, bringing together professionals in our industry to find solutions to some of the most challenging issues that impact our world. We work alongside other experts in the sector to share knowledge and experience, to promote how engineers can change the path of the built environment for the benefit of all.

City Conversations

During the pandemic our City Conversation programme moved online, ensuring we were still able to bring these important events to our community. We continued this throughout 2021, delivering six live debates to an average of 100 people per event.

Our panels featured industry experts from across the globe, something which was not possible when they were in person events in London and covered a wide range of key issues and topics.

Our City Conversations in 2021

We hosted the following City Conversations from May 2021 - May 2022. You can watch the videos of the conversations on the [Happold Foundation website](https://www.happoldfoundation.org).

- **City Conversations: Designing with Empathy**
- **City Conversations: Invisible Citizens**
- **City Conversations: Positive Emergent Disruption**
- **City Conversations: What is Regenerative Design?**
- **City Conversations: Domestic Retrofit**
- **City Conversations: Urban Green Spaces Revisited**

Happold and Women's Engineering Society Lecture 2021

In September 2021 we were delighted to be able to co-host our first in-person event in two years. Alongside the Women's Engineering Society (WES), we hosted *Future Vision: What should engineering look like in a world that is on fire?*

The free to attend lecture featured an all-female panel of experts discussed a future vision for engineering against the backdrop of growing awareness of inequality and exclusion and growing threats from climate change. The conversation and debate covered a diverse range of topics, from how the sector needs to adapt in the future, engineering's place in society and to how to introduce engineering more effectively to the next generation. As well as providing an opportunity to join the event in person, we also enabled audience members to join remotely.

Looking Forward:

In 2022 we will continue our next series of City Conversations on line with Ngenuity.

We are also thrilled to announce that the 2022 Happold Lecture will be hosted in North America. More details about the theme and location of the event will be featured on our website.

OUR HISTORY

Since our charity was founded over 25 years ago, we have worked to encourage and promote those working in the built environment to help shape the future of engineering. We understand how engineering can make a difference, so we talk about the key issues that affect us, support tomorrow's engineers, provide engineering services and career training to communities most in need and encourage thought leadership throughout our community.

OUR TRUSTEES AND EXECUTIVES

Our Trustees provide essential support, knowledge and guidance to enable us to run our initiatives and continue to develop new programmes. Their hard work and commitment allows us to continue furthering the impact that engineering has on our world.

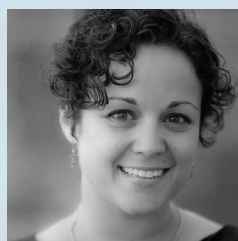
The executive team are the guardians of the Happold Foundation, working hard to ensure it is healthy, resilient and sustainable so that it continues to do great work far into the future.



Ian Liddell CBE



Robert Okpala



Sarah Sachs



Dr. Priti Parikh,
FICE, CEng, FRSA



Tom Newby



Matthew Happold



Fergus Anderson



Celia Way



Ian Stewart



Ian Maddocks,
Chairman



Lorraine Milne,
Secretary



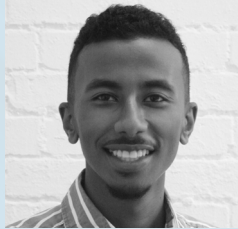
Jonathan Fox,
Treasurer

OUR AMBASSADORS

Our Ambassadors provide invaluable support representing the Happold Foundation and the projects we sponsor by volunteering their time to help arrange events, Chair Conversations and develop relationships with partner organisations.



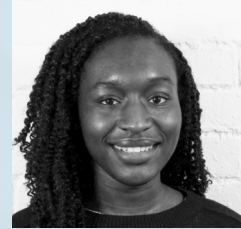
Lucy Sutcliffe



Mohamed Gaafar



Kitty Walker



Shinade Wilson



Lukas Rutkauskas



Reka Berkes

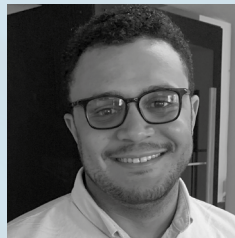
OUR AMERICAN AMBASSADORS



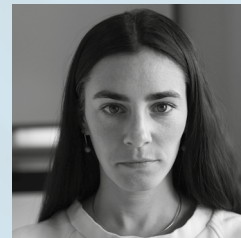
Hannah Valentine,
New York



John Sloane,
New York



Trevor Reynolds,
New York



Jaclyn Hersh,
San Francisco



Rachel
Deradoorian,
Chicago



Chris Crilly,
Washington



Kathleen Hetrick,
Los Angeles

The Happold Foundation

The Happold Foundation is a charity dedicated to using engineering skills and experience to make a positive impact on people's lives.

We work with young people, educators and researchers to shape a community who want to improve the built environment.



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