



LIF Global Colombia

The Leaders in Innovation Fellowships Global programme

The Royal Academy of Engineering's Leaders in Innovation Fellowships (LIF) programme supports talented entrepreneurs from around the globe to turn their engineering innovations into impactful, sustainable businesses.

What we do

We nurture bold, scalable innovations from all areas of engineering and technology that are addressing some of the world's most complex environmental, economic, and societal challenges.

Our USP

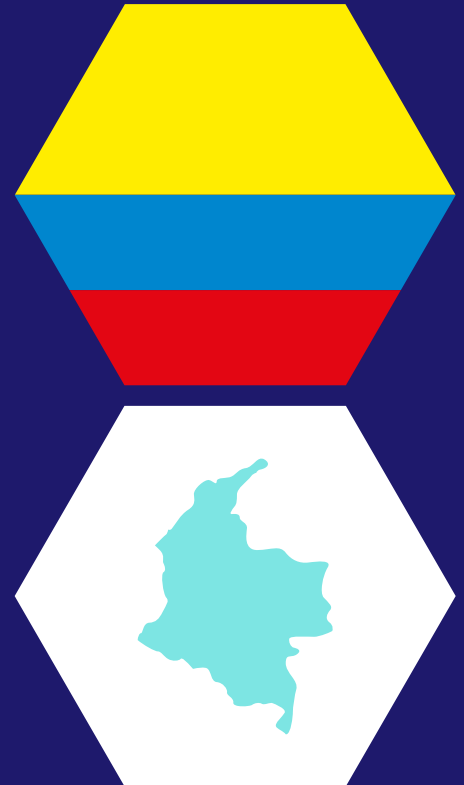
- Our personalised approach focuses on acquiring foundational entrepreneurship skills. These then lead to accelerated commercial growth, job creation, and investment in the businesses our programme supports.
- Our entrepreneurs benefit from the Academy's unique,

prestigious network, which brings together expert Academy Fellows, likeminded entrepreneurs, investors, business leaders, researchers, and policymakers.

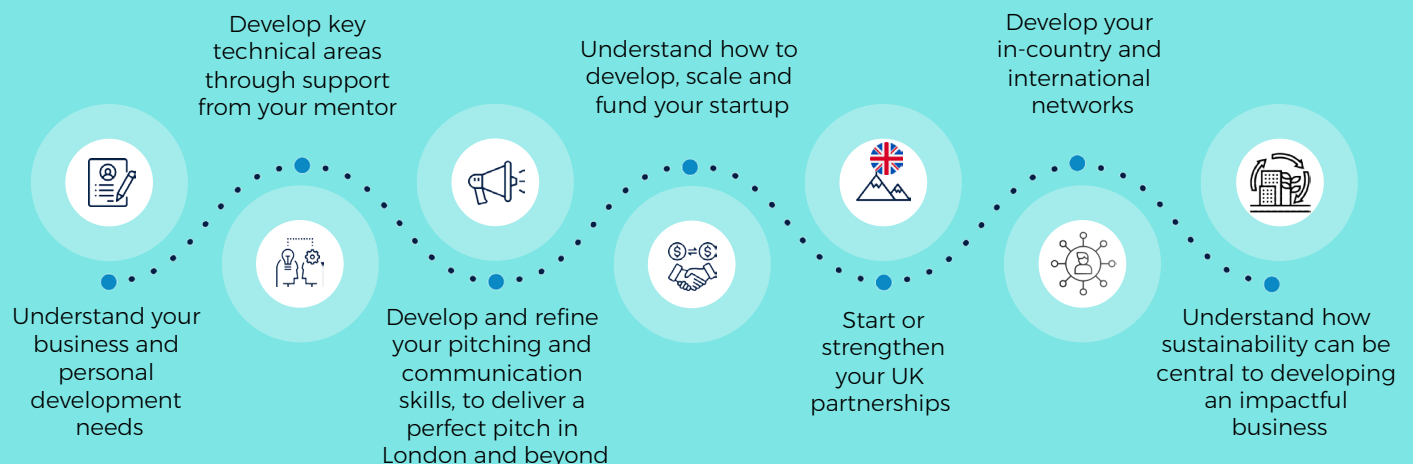
- We empower a worldwide community of more than 1,400 alumni to support each other, and curate a programme of networking events, pitch opportunities and ongoing entrepreneurship training.
- We don't take equity, fees or IP.

Our offer

- **Smart, flexible training**, designed around the needs of our innovators.
- **Tailored mentoring** from highly accomplished entrepreneurs and business leaders.
- **A network of peers** in the UK and internationally.
- **Ongoing support** from the Academy's global network and unique convening power.



The LIF Global journey



LIF Colombia – impact

LIF Global Colombia 2022 and 2023



18 innovators
graduated



Over 300 hours
of training and mentoring



10 out of 17 SDGs
delivered against

Since 2015



94
alumni
members

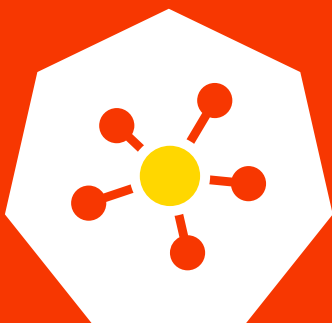


Over 64
new high value jobs
created



Over \$4.7 million
of third party follow-on
funding raised

Impact of the programme across the world:



Since 2014
1,400 LIF alumni
from 19 countries
commercialised their
innovation and gathered
in an active online
community



More than 3,500
jobs created
through innovators'
companies



In excess of
\$100 million raised
as further funding by
innovators to support their
technology

LIF Global 2023 innovators

- 1. Juan Pablo Bedoya, AGRO GO** – Digitally connecting the agro sector through a simple, fast and secure marketplace, which specialises in lands and livestock.
- 2. Jhony Ospina, Sagy** – Analysing the monthly utility bills of industrial and tertiary companies, and detecting and generating savings in rates, taxes, consumption habits, which has allowed the companies to save energy, water, or gas.
- 3. María Isabel Gaviria Arroyave, Fungi Life** – Replacing synthetic surfactants derived from petroleum with sustainable ingredients obtained from fungal biotechnology.
- 4. Santiago Jaramillo Montoya, Lifefactors** – A new patented technology to produce blood-derived medicines, which requires a tenth of traditional technology's investment. These medicines are vital for patients with genetic and infectious diseases, immunological pathologies, blood disorders and patients under surgery.
- 5. Carolina María Montoya Restrepo, BioVat technology** – A calcium supplement, highly bioassimilable and bioavailable, aimed at reducing side effects in the body compared to commonly used chemical methods.
- 6. Carlos Hugo, awa** – Simple, energy-efficient, affordable and safe wastewater treatment for small and medium towns in Latin America and the Caribbean.
- 7. Federico Perez, Platinum Capital** – A platform connecting underserved communities to global value chains and leveraging the carbon economy to finance ecosystem restoration and agroforestry.
- 8. María Paula Ramírez, Planthab-Organic Mode** – Software that gives users the opportunity to study and find a job on the new tech stocks such as blockchain and software development, helping to create a new economy striving for quality of education and reducing inequalities.
- 9. Fabian Andres Castaño Usuga, GIBIC-CPAP** – A device improving the quality of sleep of people with chronic obstructive disease, allowing users to monitor their status and providing recommendations on how to sleep better.



LIF Global 2022 innovators

- 1. David Lagarejo, ZION ING** – A service providing final disposal of hazardous waste to companies in the electrical, petrochemical and manufacturing sectors to avoid environmental contamination and associated health problems.
- 2. Alejandro Camargo Jaramillo, BATx** – Energy storage systems for renewable energy made with spent batteries from electric vehicles.
- 3. Laura Sierra-Zapata, ASTROLAB BIO** – Biological tools and digital technologies to offer diagnostic services that unveil anyone's gut/skin microbiome composition and provide the individual with key information to achieve a well-nourished and healthy life for themselves and the planet.
- 4. Christian Portilla, CITY FRAMES** – Managing the data and the available traffic infrastructure to improve mobility indicators and sustainability.
- 5. Ever Augusto Torres Silva, HADA** – An intelligent set of tools supporting the health of pregnant women, allowing real-time monitoring of gynaecologists and obstetricians.
- 6. Marcela Mercado, In Silico Science and Engineering SAS** – A virtual simulation that understands, predicts, tests, and optimises technological designs.
- 7. David Alberto Calle Vasquez, Dental typodont TOM** – A dental simulation model that can replicate clinical cases of patients with different levels of difficulty.
- 8. Mary-Luz Olivares-Tenorio, REDI** – A technology platform where agri-food companies hire R&D and innovation-on-demand services.
- 9. Javier Mauricio Durán Vásquez, Nexper** – A digital EduTech platform to create and sell digital content, which allows users to reach global audiences while transforming the way people can access knowledge in different areas.

About LIF Global Colombia

LIF Global Colombia is delivered in partnership with Ruta N.

Ruta N is the innovation and business centre of Medellín. Its purpose is to contribute to the improvement city inhabitants' quality of life through science, technology and innovation.



LIF gives you a lot of information that allows you to develop in the business world that, as a scientist, I didn't have before. What we as entrepreneurial scientists need is this type of training, where you leave aside the research, development and laboratory part, and focus on what the client needs, on what the client wants to know about you.

Laura Sierra, CEO of Astrolab Bio,
LIF Global 2022

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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.

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