



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

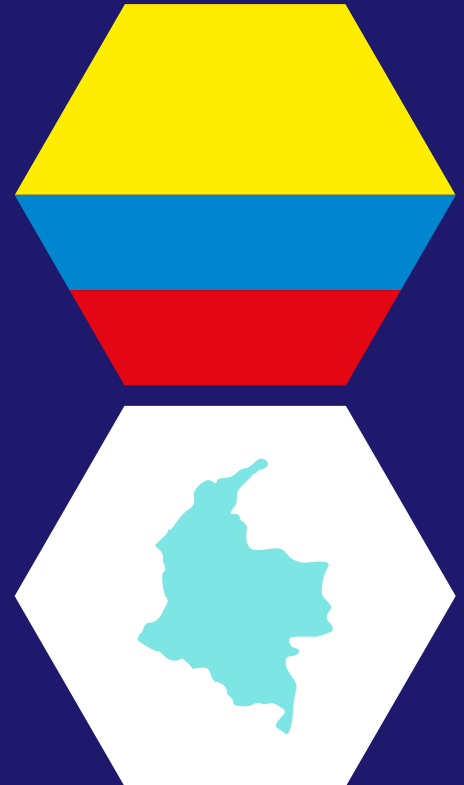
- Our personalised approach focuses on acquiring foundational entrepreneurship skills. These then lead to accelerated commercial growth, job creation, and investment in the businesses our programme supports.
- Our entrepreneurs benefit from the Academy's unique,

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

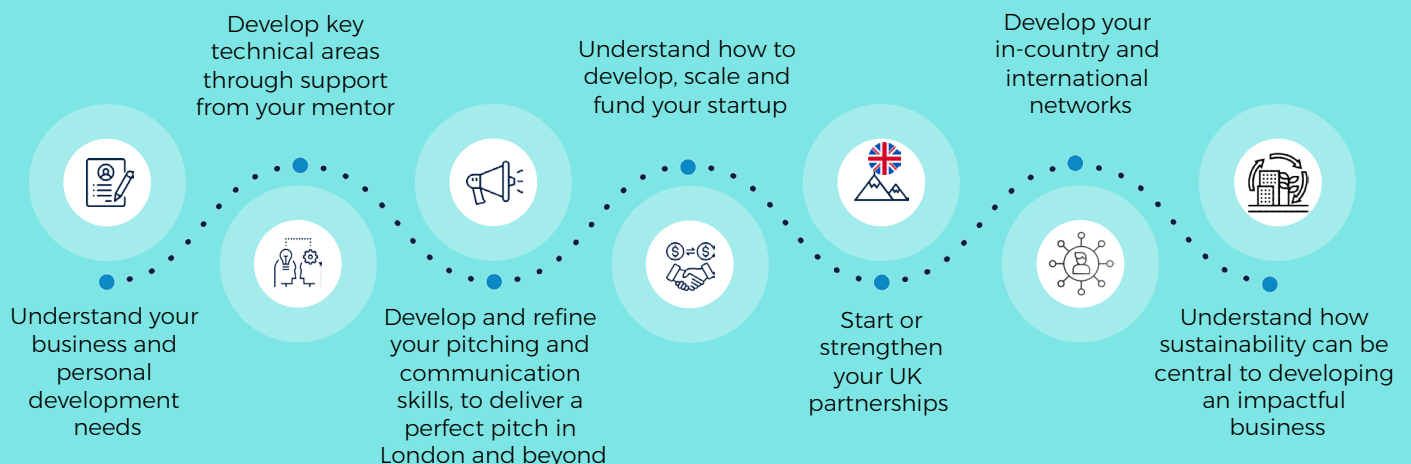
- We empower a worldwide community of more than 1,400 alumni to support each other, and curate a programme of networking events, pitch opportunities and ongoing entrepreneurship training.
- We don't take equity, fees or IP.

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 2023 and 2024



21 innovators
graduated



Over 300 hours
of training and mentoring



10 out of 17 SDGs
delivered against

Since 2015



115
alumni
members

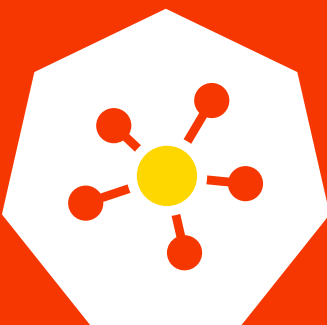


Over 102
new high value jobs
created



Over \$18.21 million
of third party follow-on
funding raised

Impact of the programme across the world:



Since 2014 1,450
LIF alumni from
19 countries
commercialised their
innovation and gathered
in an active online
community



More than 6,800
jobs created
through innovators'
companies



In excess of \$192
million raised
as further funding by
innovators to support their
technology

LIF Global 2024 innovators

- 1. Javier Mauricio Betancur, INSECT** – deactivating landmines and unexploded ordnance by burning them from a safe distance.
- 2. Santiago Silva Bañol, Reconversion Circular** - helping businesses to implement Circular Economy models.
- 3. Dayro García, Conisco** - a sustainable solution for airport mobility.
- 4. Hugo Rojas, Humanos 3D** - revolutionizing mobility solutions for people with upper limb disabilities.
- 5. Juan Sebastian Rodriguez, SimpleSpace** - Low-cost, resistant, and non-invasive aerospace technology to give access to information and facilitate decision-making.
- 6. Maria Alejandra Morales, Compositus** - innovative materials enabling large-scale polymer recycling and agro-industrial residue valorization.
- 7. Juana María Jovel Muñoz, Cooling Charge** - a thermal energy storage unit using renewable energy for sustainable refrigeration.
- 8. Laura Carmona, Bioinspired Electrode** - hydrogen production using affordable materials instead of expensive metals like platinum.
- 9. Victor Espinosa, Plastibric** - a construction brick made from 100% recycled plastic waste which has superior strength and durability a compared to traditional bricks, while reducing time, labor and carbon footprint.
- 10. Camilo Montoya, Quoia** - a complete energy efficiency ecosystem, where users can have immediate insight to their energy usage encouraging conscious energy usage.
- 11. Martin Londoño, Matt mobility** - a wheelchair traction device as a tool to end social and labour inclusion.



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. Maria 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 Maria 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. Maria 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.

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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