Royal Academy of Engineering | Leaders in Innovation Fellowships®

LIF Global Mexico

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

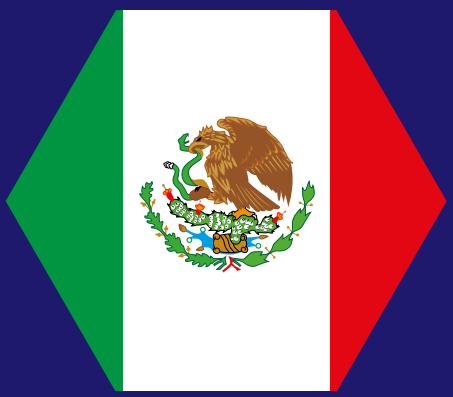
We nurture bold, scalable innovations from all areas of engineering and technology that are addressing some of the world's most complex environmental, economic, and societal challenges.

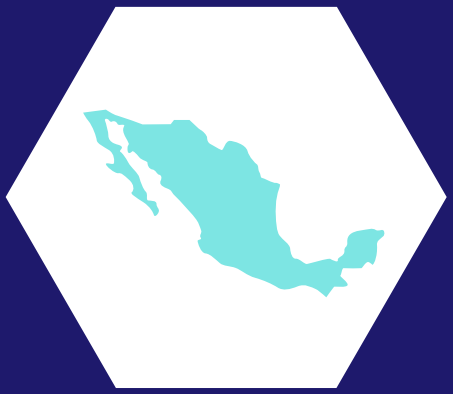
Our USP

- 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

1. Understand your business and personal development needs
2. Develop key technical areas through support from your mentor
3. Develop and refine your pitching and communication skills, to deliver a perfect pitch in London and beyond
4. Understand how to develop, scale and fund your startup
5. Start or strengthen your UK partnerships
6. Develop your in-country and international networks
7. Understand how sustainability can be central to developing an impactful business

LIF Mexico – impact

LIF Global Mexico 2022 and 2023

23 innovators
graduated

Over 300 hours
of training and mentoring

13 out of 17 SDGs
delivered against

Since 2014

147
alumni
members

Over $12 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 2022 innovators

1. **Mariana Cervantes Macías**, **BLEPS VISION** – a device that measures the cornea for finding corneal pathologies and/or adapt rigid contact lenses.

2. **Marco Antonio Andrade**, **SARA** – simplifying the process of metering, billing and identifying leaks of gas/water companies and neighbourhoods administrators.

3. **Miguel Creixell**, **ECO BIOSIS** – an organic dispersant that helps distribute cement particles within a concrete mixture and strengthens the bonds between them, increasing the strength of concrete and reducing the cement mass used.

4. **Angelica del Carmen Ruiz-Font**, **CORAZON VERDE-BIOherbicide** – a patented biological technology that will be the alternative to chemical herbicides.

5. **Rocio De La Torre**, **Air2Water-WHAT** – a system collecting water from air capable of capturing 20 litres of drinking water per kilogram of material per day

6. **Alfredo Icedo Romero**, **Soop** – a food hygiene management platform for the food and beverage industry that transforms the current paper-based systems to a digital one and combats climate change reducing to zero the use of paper.

7. **Jose Ramon Lopez**, **shrimp biomass calculation** – an intelligent monitoring system that calculates the weight and size of shrimp grown on farms, specifying the necessary amount of food.

8. **Jesus Cepeda**, **Os City** – using blockchain to help authorities provide citizen-centric digital services.

9. **Luis Enrique Sucar**, **Gesture Therapy** – an inexpensive rehabilitation technology for recovering the movement of the hands, which can be used at home or in the hospital/clinic.

10. **Leonardo Chavez Guerrero**, **Agacel Nano** – dietary supplements made of brewers' spent grain.

11. **Jose Orozco Gonzalez Arechiga** – an improved process for producing tequila and other agave distillates.

12. **Edgar Antonio Valdes Porras** – a graph system for recommendations and analysis of sustainable public policies

13. **Jose Carlos Astiazaran Aguirre**, **GLOBALMET** – a real-time microclimate analytical system that helps farmers make better decisions regarding crops management.

LIF Global 2023 innovators

1. **Natalia Sil Mejía**, **Mobs: Obstetric Monitor** – An obstetric monitor tracking postpartum blood loss to avoid obstetric haemorrhage.

2. **Sergio Roque**, **Biobotix Labs** – Helping patients to perform exercises from home, in a gamified way, under medical supervision.

3. **Patricia Gómez**, **Timplus** – A web platform that allows teachers to document and evaluate specific activities to share them with any teacher in the world.

4. **Mariana Delgado**, **RCPractica** – A device to learn and practice CPR manoeuvres in a didactic, portable and flexible way.

5. **Luis López Martinelli**, **Vivo Solar/tuSolar** – A micro grid-tied solar power system and IoT service for small businesses and residential consumers which can be installed without tools in minutes, reducing the cost by 30%-50% and allowing up to 8x more people to reduce their carbon footprint.

6. **Alfredo Gilbert**, **Robot Dental SA: The Verdopplerbot V2** – A robotic system that allows the design and manufacture of orthodontic wires, making treatment more accessible.

7. **Raul Tejeida Olvera**, **Amaranthus/ SuperCriticalPlant** – A fluid extraction pilot plant for herbals processing with zero toxic by-products.

8. **Alfredo Lau**, **RENAR** – Consulting and infrastructure solutions to achieve water sustainability, climate adaptation, and contribute to the well-being of communities facing water scarcity.

9. **Francisco Rodriguez**, **A fenton ultrasonic process to eliminate contaminants in water** – A wastewater treatment system to eliminate non biodegradable, recaciltrant organic contaminants contained in wastewater in minutes.

10. **Pedro Ornelas**, **Quitomex Advanced Wound Care Systems** – Manufacturing and selling advanced wound care systems to combat chronic wounds.

About LIF Global Mexico

LIF Global Mexico is delivered in partnership with the National Network of State Councils and Organisations for Science and Technology (REDNACECYT).

The organisation promotes public policies and best practices for scientific, technological and innovation development, through management, dissemination, outreach and human resources training actions, led by State Science and Technology Agencies in conjunction with the social, academic, governmental and business sectors for the benefit of Mexican society.

REDNACECYT

> **I learned so much, established great connections, had the opportunity to grow both personally and professionally, and have been exposed to wonderful development hubs.**
>
> Miguel Creixell, CEO of Eco Biosis, 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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