



# LIF Global Egypt

## 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.

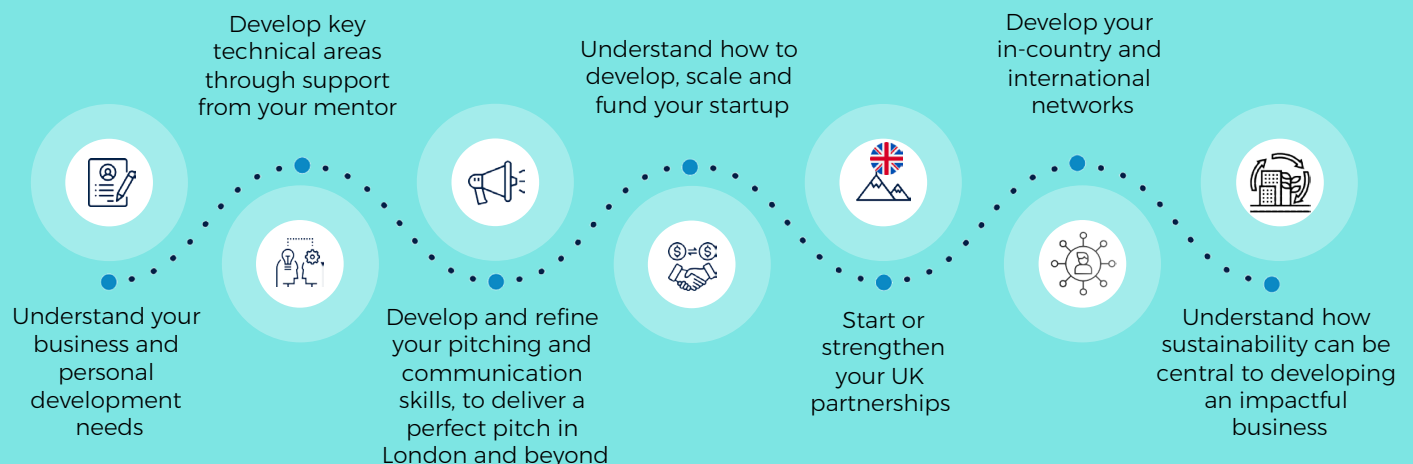
- We empower a worldwide community of more than 1,400 alumni to support each other, and curate a programme of networking events, pitch opportunities and ongoing entrepreneurship training.
- We don't take equity, fees or IP.

### 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 Egypt – impact

### LIF Global Egypt 2023



**8 innovators**  
enrolled



**Over 150 hours**  
of training and mentoring



**11 out of 17 SDGs**  
delivered against

### Since 2015



**49**  
alumni  
members

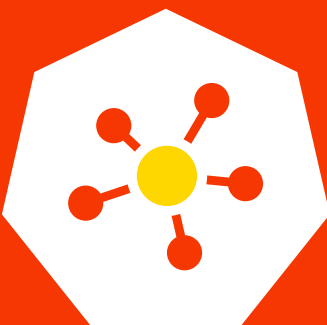


**Over 35**  
new high value jobs  
created



**Over \$800,000**  
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. Mohamed Ali, Portable desalination unit** –

A portable desalination unit providing safe water to face water scarcity challenges.

**2. Wessam Elssawy, Hydroxi-ponic** – A new way of growing plants by using water-based mineral nutrient solutions instead of soil that will save water up to 90% compared to traditional systems of the sort.

**3. Amr Elfeky, Cascaded Turbines** – A new generation of vertical axis wind turbine designed for electricity production in rural and urban areas, and contribute in decreasing fossil fuel demand.

**4. Ola Mahmoud Gomaa, Bio-solution** – A biological composite that enhances degradation of pollutants in textile wastewater in an efficient and cost-effective way. It can be used to treat different industrial wastewater. It will reduce time needed for wastewater treatment, and the treated wastewater can be re-used again in industry or for irrigation.

**5. Mohamed Abaza, UNI Bursa Blocker** –

An innovative infectious bursal disease vaccine that protects the poultry industry and ensures global food security.

**6. Ahmed Osama Amer, StreetGuards** –

A crowdsourcing tool that boosts communities' engagement to report urban street incidents data. This will provide the responsible private/public entities with the required data and information to take actions that improve the wellbeing of street users.

**7. Sherif Abuelenin, AI-based performance enhancement of miniaturized FTIR spectrometers** –

Using machine-learning techniques to enhance the resolution of low-resolution spectra that are measured using Fourier transform infrared spectrometers (FTIR). It serves applications in various domains including, but not limited to, gas analyses, air quality monitoring, medical applications, and agricultural applications.

**8. Maggie Mashaly, Algypt255/AIPS** – A tool providing simple, fast, cost efficient and most efficient production schedule for small to medium-sized manufacturing enterprises.



## About LIF Global Egypt

LIF Global Egypt is delivered together with the Science, Technology and Innovation Funding Authority.

The Science and Technology Development Fund (STDF) funds research papers and establishes international partnerships with scientists in order to keep track of quickly advancing technology, link scientific research to technological development and cooperate with civil society institutions to activate their role in the integrated scientific research system.



The LIF training helped me build an entrepreneurial mindset to commercialise my inventions and turn the proof of concept into a real product.

Irene Samy Fahim, LIF 5

## Contact information

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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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