

How to Submit Your Information Leaders in Innovation Fellowships programme (LIF) 2019/2020

How to Apply/submit your information

All applications must be submitted via the online Grant System, available here: <https://grants.raeng.org.uk>. The application form has five sections to complete. A CV is required as supporting documentation. A summary of the guidance notes below are also imbedded within the system itself.

Completing the Application Form

After logging in to the online Grant System and selecting the relevant scheme (Leaders in Innovation Fellowships Programme 2019/20 Cohort) you should be presented with the 'Instructions' screen. Here you will see some general instructions on how to use the system as well as the 4 sections of the application form:

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At any stage in the application process you can save your work and return to it at a later time. You can answer the questions in any order you like so you may freely skip some sections to return to later if you so wish 6

1. Applicant details

Please provide your name, institution, and preferred correspondence details.

This section requests additional details about yourself and your suitability for the Leaders in Innovation Fellowship Programme. You will need to answer some questions and upload your CV.

Q-Preferred Name

Please give your preferred first name(s) and surname(s). This will be printed on your name badge and certificate of completion.

Q - Please select your Partner Country

Please note that applicants must be citizens of, or have full residential status in, one of the Newton Fund partner countries. If you are not a citizen or resident of one of the following countries, your application can not be considered for the Leaders in Innovation Fellowships programme:

- **Brazil**
- **China**
- **Colombia**
- **Egypt**
- **India**
- **Indonesia**
- **Jordan**
- **Kenya**
- **Malaysia**
- **Mexico**
- **Peru**
- **The Philippines**
- **South Africa**
- **Thailand**
- **Turkey**
- **Vietnam**

Q – English skills

Please indicated for each skill your level, either beginner, intermediate, advanced or fluent. It is really important that you answer these language questions as honest and openly as possible because the whole programme will be conducted in English including application, training and follow-on support.

- Speaking
- Listening/Understanding
- Reading
- Writing

Q- Do you have a valid international passport for travelling abroad?

Please indicate if you have a valid international passport which can be used to travel to the UK. If your passport does not have 6 months or more left before expiry, please note that you may not be able to travel with it to enter the UK.

Q-Are you free to travel to London, UK on the dates stated for your country of application?

Please find your country name and tick the box if you are able to travel on the date stated next to it. If you cannot travel on the date stated for your country, please select the no button.

- Saturday 9th November – Saturday 23rd November 2019

- Saturday 30th November – Saturday 14th December 2019
- Saturday 18th January – Saturday 31st January 2020
- **Saturday 15th February – Saturday 29th February 2020 (Jordan team training)**

2. Career, Achievements and Motivation

Q – Your photograph

Please upload a photograph. If your application is successful we will use this photo in the introductory pack for participating Fellows and to be placed in materials for wider publicity of the Leaders in Innovation Fellowships programme. Please ensure it is suitable and professional. We will not be able to use blurry, low-resolution, or dark photographs.

Q - Your CV

Please upload your CV. The format and content of your CV is left to your discretion. Your CV should not exceed two (2) pages, and should be uploaded electronically as a PDF document.

Q – Your short biography (100 words maximum)

Please give a brief narrative summary of your career and achievements to date, to give us some context about your background and experience.

Q – What does entrepreneurship mean to you?

Why are you interested in entrepreneurship training, and how is it relevant to your work? Please explain why you have chosen to work on entrepreneurship and commercialisation of your innovation rather than further research.

Q- What do you want from the programme?

Which areas and activities do you expect to be supported by your country partner organisation?

Describe which aspects of the LIF programme will be particularly valuable to you in commercialising your innovation, and explain why.

Q- Challenge Areas

Thinking about some of the challenges you are facing or have faced with your innovation, where do you think you need most support and/or training?

Let us know where you think we can help.

3. Your innovation

Q – Business name

If different from the name of your innovation, please give the name of your business or start-up.

Q - Title

Please give a name for your innovation or technology. This is the description we will use to feature your project in the welcome pack or in any social media publicity, so please ensure that it represents your innovation clearly to a non-technical audience.

Q - Technological sector or research area

Please select the major technological sector or research area that your innovation derives from. If it fits into more than one area, please choose one that is most relevant. You will get to specify the technology in the next question.

Q-Specific technological sector tags

You can use this question to let us know more about the specific sector your innovation belongs to. Please select all the relevant tags for your innovation.
 e.g. If your innovation relates to reducing the environmental impact of waste management services, the tag could appear in 'Environmental' or "Civil". Please choose the most relevant.

Civil	Chemical & Process	Environment
Public health & Sanitation	Food technology	Public health & Sanitation
Waste management systems	Air & water pollution	Water resource management
Transport	Biochemical	Ecological engineering/agriculture
Coastal engineering	Drugs & Medical	Environmental impact mitigation
Infrastructure	Agriculture	Agriculture

Energy & Power	Systems & Computing	Mechanical
Transport	Communications and networks	Manufacturing and design
Renewable energy	Robotics & Artificial Intelligence	Aerospace
Energy-saving	Internet of Things	Vehicle & transport
Energy generation & storage	Coding, cryptography & data protection	
Medical equipment	Software	
	Hardware	

Materials	Medical	Biotechnology / Bioengineering
Textile	Medical equipment	Food technology
Polymers	Drugs	Medical equipment
Mining	Diagnosis	Drugs & Medical
Ceramics		Agriculture
Metallurgy		
Structural & building materials		

Q – Any other tags you would like associated with your application

Please note any other tags that do not fit within the above categories but you feel are relevant to your project.

Q – About your innovation/product/service: What does it do? (150 words max)

Please give a brief description of your innovation. Use the following questions as a prompt:

- What problem does the innovation aim to solve?
- Why is a solution necessary?
- What solution does your innovation/product/service provide?
- Why is this solution better than existing solutions?

Q - About your innovation/product/service: How does it work? (150 words max)

Please give a brief description of the science or technology that underpins your innovation. Please avoid over-technical language and keep the text simple.

Q - Does your innovation promote economic development and/ or social welfare development in your country?

Please state whether the primary purpose/outcome of your innovation is to enhance your country's economic development and/or social welfare development. Yes/No

Q – How does your innovation promote economic development and/ or social welfare development in your country? (250 words max)

How could your innovation promote economic development and/or social welfare development in your country?

One of the broader aims of the Newton Fund is to promote economic and social welfare development in developing countries. Your answer should clearly identify the social and economic development problem faced in your home country, and provide an argument with a "clear line of sight" as to how your innovation will help address this problem. A page on what issues should be considered when making an argument for ODA is provided at the end of this document. Not all of these questions need necessarily be answered, but should help in the forming of an answer.

If you are still unsure, please contact Rima Ras Tel: 5342364.

Q –Challenge Areas

Of the UN’s Global Goals for Sustainable Development, which is most relevant to the challenge your innovation addresses? More information and guidance on each challenge can be found at the end of this document. If you want to, you can choose up to two other secondary goals. 10

More information on the SDGs can be found here:

<https://sustainabledevelopment.un.org/?menu=1300>



1: No Poverty

End poverty in all its forms everywhere

2: Zero Hunger

End hunger, achieve food security and improved nutrition and promote sustainable agriculture

3: Good Health and Well-being

Ensure healthy lives and promote well-being for all at all ages

4: Quality Education

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

5: Gender Equality

Achieve gender equality and empower all women and girls

6: Clean Water and Sanitation

Ensure availability and sustainable management of water and sanitation for all

7: Affordable and Clean Energy

Ensure access to affordable, reliable, sustainable and modern energy for all

8: Decent Work and Economic Growth

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

9: Industry, Innovation and Infrastructure

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

10: Reduced Inequality

Reduce inequality within and among countries

11: Sustainable Cities and Communities

Make cities and human settlements inclusive, safe, resilient and sustainable

12: Responsible Consumption and Production

Ensure sustainable consumption and production patterns

13: Climate Action

Take urgent action to combat climate change and its impacts

14: Life Below Water

Conserve and sustainably use the oceans, seas and marine resources for sustainable development

15: Life on Land

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

16: Peace and Justice Strong Institutions

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

17: Partnerships to achieve the Goals

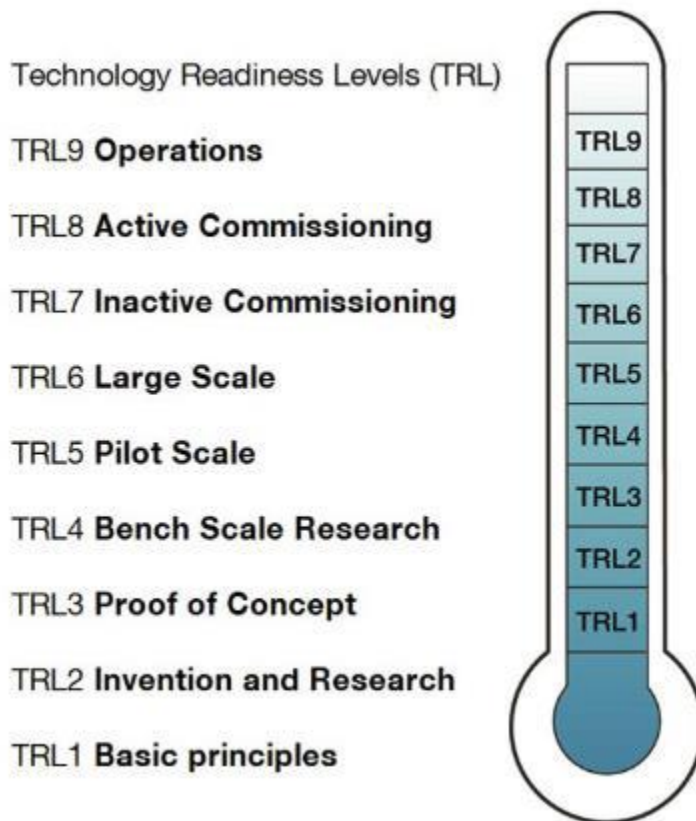
Strengthen the means of implementation and revitalize the global partnership for sustainable development

Q-What is your stage of technology development?

Please tick the most applicable box

- Concept/Idea
- Laboratory development
- Prototype
- Final Product
- Mass production

Q – What is the TRL of your innovation (Technology Readiness Level)



Q-What are the next steps you are working on for your innovation?

Please let us know what steps you need to take for your technology to be ready for production and commercialization and what you plan to be your next actions you are working on for your innovation. Bullet points are encouraged.

Your business plan

Q – Customer base (150 words)

Please give an outline of who you think will be the customer for your new product, technology or service.

Use the following questions as a prompt:

- Who will buy/use this innovation/product/service?
- Is there evidence that customers will pay for this innovation/product/service at commercially profitable levels?

Q – Market research (150 words)

What market research have you undertaken? Use the following questions as a prompt:

- Who are your competitors? Is anybody else providing a similar product/service? Why will customers choose to buy from you?
- What is happening in your local environment, and how might this affect your customers' ability or desire to pay for your innovation/product/service?

Q – Business Plan Summary (150 words)

Please provide a short description of your business idea/plan.

Use the following questions as a prompt:

- How will your product/service/innovation reach the customer?
- How will it be profitable?

Q - One line pitch (50 words)

Please provide a one-line pitch for your business. We will use this one line to showcase your innovation in networking events etc.

Use the following questions as a prompt:

- what is it?
- who is it for?
- how will it change the world?

Q - Sales Strategy

Please select the option which best describes the sales strategy of your business.

- Direct sale to customers/clients
- Sale to governmental/municipal organisations
- Sale to non-governmental/commercial organisations
- Undecided/ Not sure

Q-What is your IP Status?

Please select the most applicable option:

- Currently no IP protection
- PCT/international patent filed
- No IP protection planned
- National patent filed
- Copyright

Q-Source of Funding

Please select the option that indicates the source of funding you are next seeking for your business/project:

- Research grant

Proof of concept funding

- Seed funding (for operations and manufacturing)
- Scale-up funding (for expansion)
- Other

Q-Have you ever raised commercial investment capital before?

Yes/No

Q- Do you intend to raise commercial capital in the near term?

Yes/No

Q. Business Profile

Please fill out the table with relevant or available details, for the categories:

Number of Researchers:

Number of Employees:

Current or Potential Investors:

Partners: (are you being supported by a partner?)

Q-Next Steps

Please select the option which best describes what you are looking for next:

- Commercialising my innovation myself (Spin-out/Start-up)
- Licensing my innovation

Q – Major risks (70 words)

Please identify what you think will be the major risks and challenges that you will have to overcome in taking the business plan forward (e.g. lack of funding or securing intellectual property).

5. Entrepreneurship Skills

Please indicate your level of confidence with each of the skills and subject areas listed. This question will not impact your application; it is designed to help us group participants for the training, assign coaches and tailor the curriculum to the groups attending.

- CANVAS business model
- Market Research
- Financial Forecasting
- Valuation
- Presentation and Communication
- Negotiation
- Pitching
- Intellectual Property

Declaration

In this section, you will also be asked to declare that:

- The information you have provided is accurate.
- You understand that if you participate in the programme, it is entirely at your own risk. It is the responsibility of all participants and/or their employers to arrange suitable travel insurance *before* participants travel to the UK for the residential programme.
- You understand that it is your responsibility to obtain the necessary visa to travel to the UK.
- That you will allow the Royal Academy of Engineering to share this material with its Fellows, Funder and subcontractors for the purposes of preparing the training for the Leaders in Innovation Programme and reporting.
- Confirm that you have permission from all relevant employers to attend the Fellowship if selected to participate and that completion of the programme will depend on satisfactory attendance and participation in sessions and activities.
- You have read, understood and agree to the Royal Academy of Engineering's [Privacy Notice](#)
- You have the permission of any person or persons I have included contact details for, to share their details with the Royal Academy of Engineering for the purposes of administering this application.

All participants in the programme will join a global network of innovators and technology entrepreneurs, centered around the Royal Academy of Engineering's Enterprise Hub. As part of this network, we will endeavor to maintain contact with all participants in the programme, and may periodically offer further opportunities for international networking and mentoring. We may also contact you for further updates about the progress of your business.

Contact

If you have any technical queries about the form, please contact

Hannah.Brown@raeng.org.uk.

rима@hcst.gov.jo

Is it ODA?

The following guidance has been developed to provide general guidance on ODA compliance for the Academy's Newton Fund activities.

How the Newton Fund relates to the UK's Official Development Assistance

The Newton Fund forms part of the UK's Official Development Assistance (ODA) commitment which is monitored by the Organisation for Economic Cooperation and Development (OECD).

ODA funded activities focuses on outcomes that promote the long-term sustainable growth of countries on the OECD Development Assistance Committee (DAC) list and is administered with the promotion of the economic development and welfare of developing countries as its main objective. Newton Fund Partner Countries represent a sub-set of this list.

All applications under Leaders in Innovation Programme must be compliant with the ODA guidelines.

What activities can be funded under the Newton Fund?

Within the paper '[Is it ODA?](#)', the OECD defines ODA compliant research activities as follows:

"Research includes financing by the official sector, whether in the donor country or elsewhere, of research into the problems of developing countries. This may be either (i) undertaken by an agency or institution whose main purpose is to promote the economic growth or welfare of developing countries, or (ii) commissioned or approved, and financed or part-financed, by an official body from a general purpose institution with the specific aim of promoting the economic growth or welfare of developing countries. Research undertaken as part of the formulation of aid programmes in central or local government departments or aid agencies is considered as an administrative cost."

Some other categories of activity similar to potential Newton Fund activities are also counted as ODA [by OECD](#):

"Development-oriented social and cultural programmes provide basic facilities or training to enhance the social and cultural development of nationals of developing countries... As well as educational services, they will typically...include finance for the provision of books, periodicals, the creation or operation of libraries, provision of prizes, and the running of seminars, philosophy and humanistic studies, the consolidation of a recipient country's cultural heritage (including archaeological projects)..."

Any Newton Fund project therefore must make it clear that its primary purpose is to promote the economic development and welfare of developing countries.

They should also consider how strengths of UK will be used to address the issue identified.