

## Schedule 5

### Early Academic Fellowship Eligibility Criteria

To be eligible for the British Council Scholarships for Women in STEM – Early Academic Fellowship Programme, you must:

- Be a woman, or identify as a woman
- Be a passport holder **and** permanent resident of one of the eligible countries listed below:

SOUTH ASIA	EAST ASIA
Bangladesh	Cambodia
India	Indonesia
Nepal	Laos
Pakistan	Malaysia
Sri Lanka	Myanmar
	Philippines
	Thailand
	Vietnam

- Have an acceptance letter from one of the Academic Supervisors mentioned below to undergo a fellowship programme in one of the areas proposed by the institutions participating in one of the following UK university partners assigned for each region, before your application to British Council Scholarships for Women in STEM can be considered. **This letter of support must be provided with the application materials and detail the training and support available to the fellow as well as scientific fit with the hosting research group.**

## South Asia

Eligible countries	List of UK Partner Institutions	Department	Key Skills & Techniques	Areas	Academic Supervisors	Links
Bangladesh India Nepal Pakistan Sri Lanka	Imperial College London	Energy Future Labs	A PhD in Electrical Engineering, Power Engineering, Renewable Energy or a closely related discipline, or equivalent research, industrial or commercial experience.	Energy Infrastructure	Professor Christos Markides	<a href="https://www.imperial.ac.uk/energy-futures-lab/research/energy-infrastructure/">https://www.imperial.ac.uk/energy-futures-lab/research/energy-infrastructure/</a>
				Sustainable Power	Dr Anna Hankin	<a href="https://www.imperial.ac.uk/energy-futures-lab/research/sustainable-power/">https://www.imperial.ac.uk/energy-futures-lab/research/sustainable-power/</a>
				Sustainable Fuels	Professor Anna Korre	<a href="https://www.imperial.ac.uk/energy-futures-lab/research/clean-fossil-fuels/">https://www.imperial.ac.uk/energy-futures-lab/research/clean-fossil-fuels/</a>
		Earth Science and Engineering	A PhD in environmental science, solid earth science, climate science, oceanography, energy systems, computational science and engineering or a closely related discipline, or	Energy	Professor Tina Van De Flierdt	<a href="https://www.imperial.ac.uk/earth-science/research/energy/">https://www.imperial.ac.uk/earth-science/research/energy/</a>
				Ocean and Climate	Professor Martin Blunt	<a href="https://www.imperial.ac.uk/earth-science/research/ocean-and-climate/">https://www.imperial.ac.uk/earth-science/research/ocean-and-climate/</a>

			equivalent research, industrial or commercial experience	Dynamic Earth	Dr Lidia Longeran	<a href="https://www.imperial.ac.uk/earth-science/research/dynamic-earth/">https://www.imperial.ac.uk/earth-science/research/dynamic-earth/</a>
		Grantham Institute for Climate Change	A PhD in climate or environmental science, engineering, economics or a closely related discipline, or equivalent research, industrial or commercial experience.	Energy and Low Carbon Futures	Professor Ralf Toumi	<a href="https://www.imperial.ac.uk/grantham/research/energy-and-low-carbon-futures/">https://www.imperial.ac.uk/grantham/research/energy-and-low-carbon-futures/</a>
				Energy Access	Dr Ajay Gambhir	<a href="https://www.imperial.ac.uk/grantham/research/energy-and-low-carbon-futures/energy-access/">https://www.imperial.ac.uk/grantham/research/energy-and-low-carbon-futures/energy-access/</a>
				Water Security and Flood Risk	Professor Jenny Nelson	<a href="https://www.imperial.ac.uk/grantham/research/resources-and-pollution/water-security-and-flood-risk/">https://www.imperial.ac.uk/grantham/research/resources-and-pollution/water-security-and-flood-risk/</a>
		Centre for Environmental Policy	A PhD in climate or environmental science, engineering, policy economics or a closely related discipline, or equivalent research, industrial or commercial experience.	Human Dimensions of Environmental Change	Dr Caroline Howe	<a href="https://www.imperial.ac.uk/environmental-policy/research/themes/human-dimensions/">https://www.imperial.ac.uk/environmental-policy/research/themes/human-dimensions/</a>
				Environmental Management	Professor Mark Burgman	<a href="https://www.imperial.ac.uk/environmental-policy/research/themes/environmental-management/">https://www.imperial.ac.uk/environmental-policy/research/themes/environmental-management/</a>

				Energy and Climate	Dr Onesmus Mwabonje	<a href="https://www.imperial.ac.uk/environmental-policy/research/themes/energy-climate/">https://www.imperial.ac.uk/environmental-policy/research/themes/energy-climate/</a>
University of Stirling	Biological and Environmental Sciences	Mixed method approaches (qualitative & quantitative)	Geospatial techniques	Energy access and vulnerability	Dr Jen Dickie	<a href="https://eshh-stirling.com/">https://eshh-stirling.com/</a>
		Participatory GIS	Creative co-production	Water-energy-food nexus		
		Remote sensing	Sensor technologies	Energy transitions		
		Geospatial techniques		Invasive aquatic plant monitoring	Dr Armando Marino	<a href="https://www.stir.ac.uk/people/894087">https://www.stir.ac.uk/people/894087</a> <a href="http://vip.cs.stir.ac.uk/weed-watch/project.html">http://vip.cs.stir.ac.uk/weed-watch/project.html</a>
	Institute of Aquaculture (IoA)	Aquatic Microbiology	Rapid diagnostics	Microbial safety in seafood	Dr Margaret Crumlish	<a href="https://www.stir.ac.uk/people/255754">https://www.stir.ac.uk/people/255754</a> <a href="https://www.stir.ac.uk/news/2019/06/680k-study-to-tackle-aquaculture-disease/">https://www.stir.ac.uk/news/2019/06/680k-study-to-tackle-aquaculture-disease/</a> <a href="https://www.stir.ac.uk/research/hub/contract/332806">https://www.stir.ac.uk/research/hub/contract/332806</a> <a href="https://doi.org/10.4060/cb5067en">https://doi.org/10.4060/cb5067en</a>
Vaccination and vaccine development	Epidemiology	Aquatic disease diagnosis	Improved aquatic animal health and welfare			
Aquatic animal health and welfare						

	University of Stirling	Institute of Aquaculture (IoA)	<p>Development of strategies for water quality maintenance</p> <p>Life cycle analysis and other environmental impact tools</p> <p>Value chain analysis poverty ranking and assessment</p> <p>Product and byproduct strategies</p> <p>Participatory research within the aquaculture value chain</p>	<p>Sustainable intensification of pond-based aquaculture</p> <p>Nutrition sensitive aquaculture strategies</p> <p>Value addition within Bangladesh aquaculture value chains</p>	Prof David Little	<p><a href="https://www.stir.ac.uk/people/255974">https://www.stir.ac.uk/people/255974</a></p> <p><a href="https://www.susaquastirling.net">https://www.susaquastirling.net</a></p>
	The University of Edinburgh	School of Biological Sciences	<p>Through pursuing a project in my lab the scholar will gain expertise in cereal crop genetics, 3D imaging, next generation sequencing analysis and plant engineering. They will also receive training in experimental design, data analysis, and scientific communication (both oral and written) for both an academic and general public audience. This will be facilitated by my position as chair of the Institute of Molecular Plant Science Outreach and Science Communication Committee. Through attending both national and international conferences the postdoc will also gain valuable new international connections in cereal biology</p>	<p>Grass crops are the foundation of agriculture, but their development remains mysterious, inhibiting our ability to fine-tune shape to maximise yields in different environments. We study the cellular and genetic dynamics that underpin organ development in grasses, bridging distinct research areas by combining maize and barley genetics, computational modeling, 3D imaging, and molecular biology. Through leveraging recent advances in plant science, we investigate three questions:</p> <ol style="list-style-type: none"> <li>1. What are the gene expression and cell dynamics that underpin grass leaf development? How can we manipulate them?</li> <li>2. If all plant organs are modified leaves, how conserved is the leaf</li> </ol>	Dr Annis Richardson MRSB, Lecturer in Molecular Crop Science Institute of Molecular Plant Sciences	<a href="http://www.theplantshapelab.org/">http://www.theplantshapelab.org/</a>

			<p>and be exposed to a range of stakeholders, including industry representatives.</p>	<p>GRN across different species and organs? How is it modulated to generate new shapes?</p> <p>3. What regulates the ability of a plant tissue to respond to morphogenic signals? Can we harness this to manipulate shape?</p> <p>Currently, we're identifying new genetic components and how they interact over time to specify organ shape in barley and maize. Alongside developing novel transgenic tools to deconvolute gene functions for genes repeatedly recruited to regulate development in different organs.</p>		
			<p>The scholar would gain experience in molecular cloning, phage library construction and propagation, next generation sequencing, mammalian tissue culture, and bioinformatics. The work would provide opportunities for clinical collaboration as well as results dissemination, therefore they would also gain experience in collaborative science, seminar presentation and authoring research articles.</p>	<p>Immunology and Infection Research (IIIR), SBS, working on autoimmunity and in particular rheumatoid arthritis. The scholar will undertake a research project to use a new phage-display system that my lab has developed to identify the antigens that drive inflammation and tissue degradation in rheumatoid arthritis.</p>	<p>Dr Graeme Cowan Lecturer in Biotechnology, Institute of Immunology and Infection</p>	<p><a href="https://cowan.bio.ed.ac.uk">https://cowan.bio.ed.ac.uk</a></p>

		School of Engineering	<p>Working with Dr Kiprakis' group, the scholar will build skills in the following areas: - hardware-in-the-loop modelling and control of power systems; - co-simulation development integrating engineering, social and environmental components; - data-driven modelling techniques for power systems; - industrial experience through partnership and/or internships with collaborating companies; - science communication through open to the public STEM activities; (Dr Kiprakis is a registered STEM Ambassador for East Scotland);</p>	<p>Dr Kiprakis leads the Agile Energy Systems Research Group and his research focuses on sustainable generation, distribution and end-use of electricity. His three main areas of research are:</p> <ol style="list-style-type: none"> <li>1. Modelling, control and integration of renewable energy: how do we maximise the capacity of multiple renewable energy sources within a constrained grid, and what is their optimal mix considering resource, technical, economic and environmental constraints?</li> <li>2. Smart Grids: how do we make best use of congested network assets and how can telecoms, automation and machine intelligence be used for the optimal operation and control of the electricity distribution network?</li> <li>3. Energy Demand Management: what role can the end-user of energy play in the transition to net-zero for greenhouse gas emissions and how can demand flexibility be leveraged to this effect?</li> </ol> <p>The scholar will work on a project at the intersection of these three areas, focusing on the development of a resilient decentralised energy supply framework within power networks in the developing world.</p>	<p>Dr Aristides Kiprakis Senior Lecturer in Power Systems Director of Internationalisation – Students Director, MSc in Advanced Power Engineering</p>	<p><a href="http://www.agileenergy.group/">http://www.agileenergy.group/</a></p>
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			<p>The scholar will be able to benefit from the extensive networking opportunities available through Prof Harrison's involvement with large consortia and industrial partners.</p> <p>Furthermore, they will be able to develop skills in whole energy system modelling and lifecycle carbon assessment of complex systems.</p> <p>The acquired knowledge will allow the scholar to develop a deep understanding of climate change impact on energy systems.</p> <p>The scholar will also have the opportunity to develop their mentoring/supervision skills by assisting with the supervision of junior researchers and/or postgraduate students.</p>	<p>As lead of the Power Systems group and the Energy and Climate Change group, Prof Harrison conducts research in the following three areas</p> <ol style="list-style-type: none"> <li>1. Renewable Resource Assessment: how can we predict the available resource at different temporal and spatial scales? How can we optimally plan development and management of those resources in a multi-resource system.</li> <li>2. Climate Change Impacts on Energy Systems: How does climate change affect energy generation and distribution? How can the scale of these impacts be quantified to minimise risk in future scenarios?</li> <li>3. Lifecycle Carbon Assessment (Carbon Footprint): what can be done to reduce the carbon emissions associated with energy use?</li> </ol> <p>The project that the scholar will work on will be related to evaluating the impact of climate change on the energy systems serving communities in the developing world and determining the sensitivity of the system resilience on climate, by studying a range of scenarios.</p>	<p>Prof Gareth Harrison Deputy Head, School of Engineering</p>	<p><a href="https://www.research.ed.ac.uk/en/people/gareth-harrison">https://www.research.ed.ac.uk/en/people/gareth-harrison</a></p>
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## East Asia

Eligible countries	List of UK Partner Institutions	Department	Key Skills & Techniques	Areas	Academic Supervisors	Links
Cambodia Indonesia Laos Malaysia Myanmar Philippines	University of Glasgow	The Institute of Biodiversity, Animal Health and Comparative Medicine	Simulation modelling  Genomic, spatial, temporal epidemiology  Bioinformatics  Molecular Biology techniques  Metabolomics	Ageing, Health and Welfare  Animal Ecology and Environmental Change  Infectious Disease	Prof. Daniel Hayden, Director of Research Institute	<a href="https://www.gla.ac.uk/researchinstitutes/bahcm/">https://www.gla.ac.uk/researchinstitutes/bahcm/</a>
Thailand Vietnam		Institute of Cardiovascular and Medical Sciences	Preclinical animals models of disease  Genomics and proteomics  Clinical data analysis  Molecular Biology techniques  Epidemiology	Cardiovascular Oncology  Metabolic and Diabetes  Stroke	Prof. Christian Delles, Director of Research Institute	<a href="https://www.gla.ac.uk/researchinstitutes/icams/">https://www.gla.ac.uk/researchinstitutes/icams/</a>

		Institute of Infection, Immunity and Inflammation	<p>Preclinical animals models of disease</p> <p>Genomics and proteomics</p> <p>Clinical data analysis</p> <p>Molecular Biology techniques</p> <p>Cell culture</p>	<p>Bacteriology</p> <p>Parasitology</p> <p>Virology</p>	Prof. Paul Garside, Director of Research Institute	<a href="https://www.gla.ac.uk/researchinstitutes/iii/">https://www.gla.ac.uk/researchinstitutes/iii/</a>
		Institute of Health and Wellbeing	<p>Health outcomes Assessment</p> <p>Epidemiology</p> <p>Statistical modelling</p> <p>Clinical data analysis on complex interactions</p> <ul style="list-style-type: none"> <li>• Behavioural science and Health economics</li> </ul>	<p>Data Science</p> <p>Determinants of Health and Health Inequalities</p> <p>Solutions Focused Research</p>	Prof. Jill Pell, Director of Research Institute	<a href="https://www.gla.ac.uk/researchinstitutes/healthwellbeing/">https://www.gla.ac.uk/researchinstitutes/healthwellbeing/</a>
	University of York	Department of Environment and Geography ( <a href="mailto:environment@york.ac.uk">environment@york.ac.uk</a> )	<p>Reconstructing sea level change</p> <p>Using microfossils to reconstruct vegetation and environmental changes</p>	Climate Change, Environment and Risk Reduction	Open Call. Skills and techniques must be related to the research areas	<a href="https://www.york.ac.uk/environment/">https://www.york.ac.uk/environment/</a>

			<p>Coastal geomorphology</p> <p>Environmental archaeology</p> <p>Investigation of storms events</p>	<p>Delivering clean environments</p> <p>Creating a climate resilient world</p> <p>Creating sustainable and equitable good, energy and water systems</p> <p>Securing a biodiverse planet</p>	<p>championed by the host department.</p>	
		<p>Department of Chemistry  <a href="mailto:chem-research@york.ac.uk">chem-research@york.ac.uk</a></p>	<p>Synthetic chemistry of organic energy storage, light-emitting and spintronic materials</p> <p>Supramolecular aggregation and assembly of conductive organic thin films and crystalline materials</p> <p>Fundamental electrochemistry, spectroelectrochemistry and time-resolved photospectroscopy of redox-active molecules</p>	<p>Molecular material chemistry</p> <p>Developing an understanding of TT-electronic geometrics in one, two and three dimensions within molecular and hybrid molecular materials</p>	<p>Dr Alyssa-Jennifer Avestro</p>	<p><a href="https://www.york.ac.uk/chemistry/staff/academic/a-c/dr-avestro/">https://www.york.ac.uk/chemistry/staff/academic/a-c/dr-avestro/</a></p>

			<p>Density functional theory (DFT) and time-dependent DFT computational modelling</p> <p>Fabrication and testing of rechargeable organic lithium-ion batteries</p>	<p>Energy transport storage and conversion devices</p>		
		<p>Centre for Energy Efficient Materials (<a href="mailto:ceem@york.ac.uk">ceem@york.ac.uk</a>)</p>	<p>Development optimisation or energy efficient materials for applications in energy conversion, information and communication technologies, solar energy, and catalysis</p> <p>Advanced materials synthesis: including physical deposition of materials, nanostructuring of materials, as well as a wide range of wet chemistry techniques</p> <p>Predictive materials modelling: including finite element and atomistic level methods as well as fully quantum mechanical approaches for predictive modelling of material structure and properties</p>	<p>Smart technologies</p> <p>The conversion of clean electrical energy</p> <p>Nanoscale materials to drive sustainable economic growth</p> <p>Carbon capture and utilisation</p> <p>Energy Transition</p>	<p>Open Call. Skills and techniques must be related to the research areas championed by the host department.</p>	<p><a href="https://www.york.ac.uk/ceem/">https://www.york.ac.uk/ceem/</a></p>

			<p>Advanced materials characterisation: including state-of-the-art microscopes that can resolve the structure of materials down to the atomic scale, methods to probe optical and electronic properties, and tools to resolve the chemical reactivity and photo-electrochemical properties of materials</p> <p>Collaborative working bringing together various powerful techniques above to develop innovative nanoscale materials to help drive sustainable economic growth</p>			
		<p>Department of Electronic Engineering (<a href="mailto:elec-deptmgr@york.ac.uk">elec-deptmgr@york.ac.uk</a>)</p>	<p>Good working knowledge of broad electrical engineering</p> <p>Being able to use simulation software (MATLAB) skilfully</p> <p>Experienced in developing academic strategies and responding critically to lectures</p>	<p>Renewable energy</p> <p>Agriculture</p> <p>Digital Transformation</p> <p>Clean water technologies</p>	<p>Open Call. Skills and techniques must be related to the research areas championed by the host department.</p>	<p><a href="https://www.york.ac.uk/electronic-engineering/">https://www.york.ac.uk/electronic-engineering/</a></p>

			<p>Vast experience of academic writing for a range of audiences</p> <p>Successful comprehension and skills for understanding academics texts and lectures</p>			
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- Have completed all components of PhD in the last three years at a university based in one of the eligible countries participating in this scheme. We will consider applicants that have submitted their thesis but are still awaiting *viva voce* examination, and will make awards to these candidates only with the mutual agreement of British Council and the hosting supervisor.
- Have not previously studied at degree level or higher in the UK or lived recently in the UK.
- Meet the English language requirement of the UK university partner.
- Demonstrate case for financial support.
- Return to your country of citizenship for a minimum of two years after your scholarship award has ended.

### Other criteria

You are also required to show in your application form that:

- You can demonstrate a plan and passion to engage other women and girls in STEM from your home country
- You agree that your personal data being shared with the British Council as a condition of applying for the bursary

If you are awarded a fellowship, you agree to maintain contact with the British Council and act as an ambassador for the UK and engage with activities as part of a British Council Women in STEM alumnus during and after your study in the UK. Any involvement in these activities during your study in the UK will take up no more than five hours per term.

**You are not eligible for a British Council Scholarships for Women in STEM if you:**

- Hold dual British citizenship
- Are an employee, a former employee, or relative (\*) of an employee of Her Majesty's Government (including British Embassies/High Commissions; the Department for Business, Energy and Industrial Strategy; Department for International Trade; the Ministry of Defence; and the Home Office)
- Are an employee, a former employee, or relative (\*) of an employee of the British Council Scholarships for Women in STEM – eligible countries

*(\*): Relatives are defined as parents or step-parents, siblings or step-siblings, children or step-children, spouse, civil partner or unmarried partner (where the couple have been in a relationship akin to marriage or civil partnership for at least two years).*

- Are currently in receipt of financial support or funding towards your study programme in the UK from any other source
- Have previously studied in the UK with funding from a UK Government-funded scholarship or a UK institutional scholarship/financial bursary.