

# University of Strathclyde

## Name of Organisation:

University of Strathclyde

## Fellowship Summary

The Science and Technology for Development program is a comprehensive fully funded three-month fellowship programme designed for professionals from India, Pakistan, Bangladesh and Sri Lanka working in Energy Materials, Processes and Devices for net zero. The programme provides the professionals an excellent opportunity to enhance their skills in energy materials and technologies, with a focus on achieving net zero emissions. Participants will undergo specialized training, mentorship from experts, and will have opportunity to engage in impactful projects addressing real-world challenges in their home countries. There will be networking opportunities with peers, academic and industry professionals fostering collaborations and knowledge exchange with in the UK. This fellowship provides platform for career advancement, networking and contributing to sustainable development goals. Apply for CSC Professional Fellowship to join us at University of Strathclyde in driving innovation and sustainability in Energy Materials, Processes, & Devices for shaping a Sustainable Net-Zero future.

## Weblink for Candidates

<https://www.strath.ac.uk/science/chemistry/>

## Eligibility

Our programme will be open to science and technology professionals who are working towards the sustainable development for net zero, in India, Pakistan, Bangladesh and Sri Lanka. By selecting a homogenous cohort with overlapping cultural history and professional experience, we can tailor the programme to address the specific development challenges facing these countries, maximising the impact of the programme upon the fellows' return home. This will equip fellows with new knowledge, skills and networks that are directly relevant to their work and local context, ultimately contributing to the advancement of science and technology for development towards in their home countries.

## Proposed Fellowship Dates

12/02/2025 to 13/05/2025

## Proposed Activity

Upon acceptance into the program, fellows will receive detailed information regarding the specific dates of each activity. The fellowship spans three months, each month tailored to provide comprehensive learning experiences, professional development opportunities, and networking engagements.

In Month 1, fellows will embark on an immersive journey beginning with orientation and induction sessions. A unique ice-breaker activity called 'The Glasgow murals scavenger hunt' will foster cross-cultural learning and critical thinking. Exploring Glasgow's famous

murals, fellows will delve into the role of art in community development, discuss mural creation techniques, and analyze their impact on local communities. Networking opportunities with department colleagues and other host organizations will further enrich their experience. Additionally, fellows will participate in professional development sessions covering project management, leadership, and communication, equipping them with essential skills for their journey ahead. A full-day visit to The National Manufacturing Institute of Scotland will provide exposure to industry leaders and experts in manufacturing, fostering networking and coaching sessions.

In Month 2, fellows will deepen their understanding of energy technologies through an immersion experience with host organizations. Focused on Energy Materials, Processes, and Devices for achieving Net Zero future, fellows will shadow specific projects relevant to their home countries' needs, particularly India, Pakistan, Bangladesh, and Sri Lanka, heavily reliant on fossil fuels. Participating in departmental seminars, fellows will share their backgrounds and professional activities, contributing to knowledge exchange. Engagement in conferences like 'ChemEngUK Day', 'SuperSolar', and 'Solar Chemical Fuels' will provide exposure to cutting-edge research and industry trends. Community engagement activities, such as 'ReallySmallScience' 'Edinburgh Science Festival', will foster outreach and public engagement. Professional development sessions on innovation and entrepreneurship will further enhance fellows' skills and entrepreneurial mindset. A workshop at Strathclyde is planned that will offer expert talks on Science and engineering for net zero future and effective science communication.

Continuing into Month 3, fellows will build on their immersion experience with host organizations, furthering their engagement with industry leaders and experts. A one-day visit to The Power Networks Demonstration Centre (PNDC) and Lightweight Manufacturing Centre (LMC) will provide additional networking opportunities and coaching sessions on energy-related topics. Participation in the 'All Energy' conference will broaden fellows' perspectives on energy challenges and solutions. Internal workshops led by the hosts will deepen their understanding of the latest technologies and research. The fellowship will culminate with final presentations, where fellows will showcase their learnings, experiences, and plans for applying them in their home countries.

Throughout the fellowship, fellows will benefit from professional and self-development opportunities offered by the University of Strathclyde's Organisational and Staff Development Unit (OSDU). Training courses covering project management, personal effectiveness, management and leadership, knowledge exchange, and entrepreneurship will be available. Fellows will also have access to the university's specialized online tool, 'My CPD', to support their continuous professional development. Please see: <https://www.strath.ac.uk/professionalservices/hr/learninganddevelopment/organisationalandsaffdevelopmentunitosdu/>

In conclusion, through immersive experiences, professional development sessions, and networking opportunities, CSC Professional fellows will emerge as catalysts for change, contributing to the achievement of net zero emissions and sustainable development goals in their communities and beyond.

## Priority Theme

Science and technology for development