

Workshop Title: Intelligent Infrastructures for Sustainable and Resilient Future Energy Systems**UK coordinator: Dr Ioana Pisica****Turkey coordinator: Dr Oguzhan Ceylan****Discipline: Energy****Dates and venue: 24-27 May 2017, Istanbul Kemerburgaz University, Istanbul, Turkey**

As part of the Newton Fund, the British Council and TUBITAK we are inviting applications from the UK and Turkey to participate in the above workshop.

The major challenge area addressed by this workshop is the provision of resilient solutions to enable large scale access to sustainable energy, with emphasis on the Turkish context.

The Turkish government is currently planning to replace electrical power generation from natural gas with electrical power generation by domestically produced lignite. On the other hand, Turkey has vast potential of wind, solar and hydro energy, a fact acknowledged by government planners. Renewable investments in Turkey are supported prudently by feed-in tariffs that allow renewable electricity producers to sell electricity at pre-determined prices.

According to official projections, Turkey will see an additional 17 GW of renewables capacity installed by 2019. Excluding hydro, this would represent 11% of the total installed capacity by the end of 2019 (2015-2019 Strategic Plan, TEİAŞ, July 2015). Even so, the adoption of renewable energy is below the country's potential. By increasing its investment in sustainable energy on a large scale, Turkey would promote broad economic benefits, including more technology-intensive, high-skilled and better-paying jobs. It would also lead to better accessibility to sustainable energy for all.

However, large scale adoption of sustainable energy in ageing power systems requires specialist attention. The Turkish networks in particular suffer from this aspect. Novel technologies should be designed and implemented to ensure operational assimilation into the grid and into electricity market mechanisms, network and protection scheme adaptation and energy management. The type of technology adopted itself imposes new constraints and limitations, thus increasing the complexity of the system.

The planned workshop focuses on emerging technologies and intelligent infrastructure for future smart grids and it is aimed at involving early career researchers interested in sustainable energy. Applications from researchers in energy and power, as well as social sciences are encouraged in order to provide a multi-disciplinary approach to the integration of renewable energy sources into ageing power grids.

The workshop will provide a unique opportunity for sharing research expertise and networking. During the workshop, early career researchers will have the opportunity to present their research in the form of a short oral presentation and discuss this with established researchers from the UK and Turkey. There will also be a focus on the building up of links for future collaboration and participants will be selected on the basis of their research potential and ability to build longer term links.

The British Council and TUBITAK will cover the costs related to the participation to the workshop, including:

- a) International (economy return) airfares for up to 20 researchers from the UK
- b) Local travel costs for participants from Turkey
- c) Accommodation and meals for all participants for the duration of the workshop.

Costs for the visa will be covered; however, participants will be responsible for making all the necessary arrangements. Applicants will need to ensure that they apply for a visa in time for the workshop. Although this cost will not be covered by the British Council, participants are also encouraged to purchase adequate travel and medical insurance. The British Council accepts no responsibility for any problems which may occur when the participants are in-country.

Application and Deadline:

The full application below must be completed and submitted by 15 March 2017 to: ioana.pisica@brunel.ac.uk

Eligibility Criteria:

- Applications must be submitted using the Researcher Links application form below.
- Application must be submitted before the above deadline.
- Participants must be early career researchers: Early Career Researchers are defined as holding a PhD and having up to 10 years post-PhD research experience. They are equivalent to the 'Recognised Researcher' and sometimes 'Experienced Researcher' categories in the EU framework for researchers' careers. http://ec.europa.eu/euraxess/pdf/research_policies/Towards_a_European_Framework_for_Research_Careers_final.pdf . Leading Researchers as defined by the EU Framework for researchers careers are research group leaders who are internationally recognised in their field.
- Participants must have a research or academic position (a permanent post, research contract, or fellowship etc.) at a recognised research institution either in the UK or in Turkey

Quality Assessment

- Experience and relevance of the applicant's research area to the workshop.
- Motivation and contribution to the aims of the workshop.
- Description of the long term impact expected through the participation in the workshop.
- Ability to disseminate workshop's outcomes.

Selection Procedure:

- Eligibility check.
- Quality assessment.

Notification of results:

Applicants will be notified by email within two weeks after the application deadline.

Equal Opportunities

The British Council is committed to equal opportunities and diversity in all its activities and this includes the avoidance of any bias in the assessment of applications due to gender, disability, racial or ethnic origin, sexual orientation, or religious belief. Participants' selection undertaken by workshop organisers must not contravene this policy. Extra support to enable participation of early career researchers with special needs will be given.

Application Form

1. Applicant	
Name and title	
Gender (to monitor statistic participation – this will not be considered during assessment)	
Position and institution	
Postal address	
Email	
Phone number	
Brief CV (academic career, publications, markers of esteem, and any other relevant information) – no more than ½ page of A4	

Abstract - Please give a summary of your area of research

3. Please describe your motivation to attend the workshop and how the workshop matches your professional development needs
4. Please describe the expected impact of your participation to the workshop on your personal and professional development, including your ability to work on an international level

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5. Please indicate how you will disseminate the outcomes of the workshops and the new knowledge/skills you have acquired

6. Workshops will take place in English as standard. Please indicate your ability to work and communicate in English (Note, translators may be provided if necessary)			
Native speaker		Good	
Excellent		Need support	

7. Please use this space to give any additional information that you feel is relevant for the application.