**Workshop Title:** Community-based Sustainable Energy: Combining wireless systems, smart micro-generation and education

**UK coordinator:** Elena Gaura

**Brazil coordinator:** Antônio Augusto Fröhlich

**Theme:** Smart Microgrids, Wireless systems, and Community Education

**Dates and venue:** February 15-20, 2015, Florianópolis, SC, Brazil

The British Council, CNPq and CONFAP/FAPESP have launched a new five-year programme to encourage international research collaboration between ambitious young researchers from the UK and eighteen countries around the world. The “Researcher Links” programme, now co-funded under Newton Fund, provides opportunities for early career researchers from the UK and Brazil to interact, to learn from each other and to explore opportunities for building long-lasting research collaborations.

As part of this programme, a ‘call to action’ was issued in October 2014 for leading researchers to propose themes for bilateral workshops to be held in one of these countries that will bring together early career researchers to discuss their research and start to build international relationships. Successful applicant organisations from the UK and Brazil are now recruiting early career researchers and welcome applications to attend the above workshop.

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

Newton Fund, through the British Council, will cover the costs related to the participation to the workshop, including: travel (both international and local), accommodation and meals. Costs for the visa will be covered; however participants will be responsible for making all the necessary arrangements. Participants must have travel and medical insurance.

**Workshop Aims and Objectives:**

This workshop will bring together specialists, to discuss the issues and potential solutions of micro-grids, from three domains: wireless sensing and embedded computing; renewable energy; and social scientists. The aims of the workshop are to (1) inform the development of wireless devices and tools to support integrated community-based microgrids and microgeneration control; (2) map the current gaps in education and technology that make them inaccessible or difficult to apply.

The workshop has the following objectives:

1. Discuss the latest innovations in renewable sources, home energy monitoring, microgrids, and communities education; cross-pollinate the 3 areas
2. Develop a research roadmap to bridge technology and education gaps, to enable uptake of community controlled microgrids
3. E[xplore culturally appropriate communities](https://www.formstack.com/admin/) empowerment and education pathways pertaining to microgrids to enable effective technology adoption
4. Develop a strategy to demonstrate home/community energy monitoring and decision tools integration with microgrids in a community-based test-bed
5. Launch a collaborative network through a joint website in which strong applications for collaborative research and activities can be organised by staff from CU, UFSC, and other invited international institutes. The platform will also allow the ECR participants to initiate new research activities with the support and including UFSC and CU.
6. Develop joint proposals scoping for scientific innovation and sustainable and feasible plans for future collaboration

**Selection Criteria**

The organization will select 17 Early Career Researchers from UK and 17 from Brazil. The selection criteria are:

* Less than 10 years since being awarded the PhD
* Experience and relevance of the applicant's research area to the workshop
* Motivation and contribution to the aims of the workshop
* Long term impact expected through the participation in the workshop
* Ability to disseminate workshop's outcomes
* Participants must have a research or academic position

**Application and Deadline:**

The full application form below, along with a two-page position statement, must be completed and submitted by the December 24th using Easy Chair: <https://easychair.org/conferences/?conf=comse2016>

**Position Statement**

Short papers (max 2 pages) should be submitted along with this application form. The submissions should be previously unpublished, and not currently under review by another conference or journal. Your submission must be in PDF format with all fonts embedded, and be formatted according to IEEE 8.5x11 conference format, and formatted in accordance with the IEEE Computer Society author guidelines. The templates can be found here: http://www.ieee.org/conferences\_events/conferences/publishing/templates.html

**Application Form**

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| **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 1⁄2 page of A4 |  |

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| **2. Abstract - Please give a summary of your area of research** |
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| **3. Please describe your motivation to attend the workshop and how the workshop matches your professional development needs** |
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| **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** |
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| **6. Workshops will take place in English as standard. Please indicate your ability to work and communicate in English** | | | |
| Native speaker |  | Good |  |
| Excellent |  | Need support |  |

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| **7. Please use this space to give any additional information that you feel is relevant for the application.** |
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| **8. Participants are expected to remain involved long term with the workshop. Please, provide your plans regarding this involvement below.** |
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