Do you want to be a pioneer of a new United States-United Kingdom *Advanced Studies Institute* in Robust Control of Quantum Networks?

The US National Science Foundation (NSF) has entrusted E. Jonckheere (Principal Investigator on the US side) and Prof. Sophie Schirmer of Swansea University and Dr. Frank Langbein of Cardiff University (contacts on the British side) to develop a joint United States-United Kingdom (US-UK) Advanced Research Institute (ASI) in Robust Control of Quantum Networks. In order to give the program broader impact, Profs. Tony Levi and Paul Bogdan, both with USC, are advisers to the program. This venture is part of the NSF International Research Experience for Students (IRES) program. NSF will pay for traveling & lodging expenses of a selected body of students, recent graduates, and postdocs to attend 2 weeks of intensive training in robust control of quantum networks and interact with British students/postdocs of a similar standing. The training is scheduled June 23-July 07. Lectures will be offered at both Swansea University and Cardiff University (see attached program).

Both cities are in Wales (a beautiful area in South-West of Great Britain) and this program will capitalize on Wales' unique position in compound semiconductor technology with, **in Cardiff**, the Engineering and Physical Sciences Research Council (EPSRC) Manufacturing Hub, led by Cardiff University, and the Compound Semiconductor Catapult (industry incubator), and , **in Swansea**, the <u>Swansea Doctoral Training Center</u>, the <u>Swansea Computational Foundry</u> and the <u>Swansea Nanotechnology Health Center</u>.

Candidate students should be US citizens or permanent residents and student candidates are expected to have regular undergraduate or graduate student status, acceptable GPA (>3.5/4.0), and have taken courses in robust control and/or quantum information technology, and/or quantum devices, or have relevant experience. (We are currently negotiating to have USC-students get 03 EE599 USC unit credit.) Recent graduates and postdocs are expected to have experience in control and/or quantum technology. If you are interested, please, see Dr. Jonckheere (EEB306, (213) 740-4457, jonckhee@usc.edu) for details and to get an application form. The application form, the program/course syllabus, and other relevant information are downloadable from http://ee.usc.edu/~jonckhee. This web site will also keep candidates abreast of the latest developments in this program.

Application to IRES program—students

Name:
Your institution:
Email address:
Student status (undergrad/grad, major):
Citizenship status (circle relevant one):US citizenUS permanent resident
(This program is restricted to US citizens and permanent residents.)
Grade Point Average (GPA):UNDERGRAD:GRAD:
Number of units taken at your institution:
Passed screening examYES/NOpassed qualifying examYES/NO
Relevant courses taken at USC or elsewhere:
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Relevant experience (e.g., internship, industrial experience)
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Please attach a CV and a personal statement as to why this program is of interest to you.

Application to IRES program—recent graduates and postdocs

Name:
Your institution:
Email address:
Your major (e.g., physics, electrical engineering):
Citizenship status (circle relevant one):US citizenUS permanent resident
(This program is restricted to US citizens and permanent residents.)
Graduate Grade Point Average (GPA):
Dissertation topic:
Relevant experience (e.g., internship, industrial experience, visiting position)
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Please attach a CV and a personal statement as to why this program is of interest to you.