PhD students recruitment

Status: 4-year contract
Dept/Faculty: CTVR: The Telecommunications Research Centre
Application closing date: 30th March 2012
Salary: €18,000 net stipend per year, plus payment of PhD fees for EU citizens
Expected start date: May 2012 (or later by arrangement)

Post summary

CTVR (www.ctvr.ie) is Ireland's largest telecommunications research centre. The Centre carries out industry-informed research focusing on wireless and optical networks of the future with a strong emphasis on the technologies that will underpin these networks. This position, under the direction of Prof. David Payne and Dr. Marco Ruffini, is funded by Science Foundation Ireland (SFI).

Details

Three Phd studentships in **next-generation optical networks** are available at CTVR – The Telecommunications Research Centre, at Trinity College Dublin. Positions are funded by the Science Foundation Ireland, and will be funded for 4 years. The candidate must have a Bachelor degree (Master preferred) in Electrical Engineering, Computer Engineering, Physics, Computer Science, or a related field, with a minimum mark of 2.1 (i.e. with a score higher than 60%).

The PhD topics will focus on the following three research areas

1. Optical core and access network design:
   Knowledge of combinatorial optimization methods is a preferential skill for this topic
2. Network switching and routing node design:
   Knowledge of layer2 and layer 3 switching/routing protocols is a preferential skill for this topic
3. Traffic, techno-economic and power consumption modelling:
   Knowledge of statistical modelling methods is a preferential skill for this topic

In addition all candidates are expected to have:

- A basic knowledge of network communications and systems.
- Good written and oral communication skills
- The ability to work well in a group are also important requirements.
- Strong self motivation and willing to learn attitude.

Interested applicants should send a CV to Dr. Marco Ruffini (marco.ruffini@tcd.ie) including contact information for at least two professional references.

Trinity College is the leading university in Ireland. CTVR is Ireland's largest telecommunications research centre. We carry out industry-informed research in the telecommunications field. We focus on optical and wireless networks of the future with a strong emphasis on the technologies that will underpin these networks. We pride ourselves

in carrying out research that is of the highest quality and that has international impact. We also pride ourselves in being an inclusive, diverse, creative, and friendly place to work.