

Research Positions at SnT, University of Luxembourg

The Interdisciplinary Centre for Security, Reliability and Trust (SnT) carries out interdisciplinary research in secure, reliable and trustworthy ICT systems and services, often in collaboration with industrial, governmental or international partners. The Centre is currently expanding its research activities and is seeking highly motivated researchers who wish to pursue research in close cooperation with our partners. For further information you may check: www.securityandtrust.lu.

The successful candidate will join a strong and motivated research team lead by Prof. Björn Ottersten.

We are seeking candidates for the following positions:

Research Associate in physical layer cognitive communications “COGCOM”

The candidate should hold a PhD and have extensive experience and publication record in a number of the following topics:

- Physical Layer Communications
- Underlay / Overlay Cognitive Communications
- Dynamic Spectrum Management
- MIMO-OFDM: Multiuser Techniques, Channel Modelling, Resource Allocation

Research Associate in physical layer satellite communications “SATCOM”

The candidate should hold a PhD and have extensive experience and publication record in a number of the following topics:

- Physical Layer Communications
- Satellite Communications
- MIMO: Coding, Multiuser Techniques, Channel Modelling
- Multibeam and Hybrid Satellite Systems

PhD Candidate positions in signal processing for wireless communications “PHYCOM”

The successful candidates will pursue a PhD on one of the following topics:

- Cooperative and Cognitive Satellite Networks
- Signal Processing for Space Applications
- MIMO: Coding, Multiuser Techniques, Channel Modelling
- Radio Resource Management & Optimization

The ideal candidate should have some knowledge and experience in a number of the following topics, Satellite Communications, Information Theory, Spatial Signal Processing, Radio Resource Management, and be familiar with the principles of, Linear algebra, Multivariate statistics, and Optimization theory.

Qualifications: All positions required a degree in Electrical/Electronic Engineering, Computer Science or Applied Mathematics. Development skills in MATLAB or C++ are required.

Language Skills: Fluent written and verbal communication skills in English are required. Knowledge of French, German or Luxembourgish is advantageous.

Application: Research Associates are offered a 2 year appointment (extension up to 5 years in total is possible) and a highly competitive salary. PhD candidates are offered a 3 year appointment (extension up to 4 years in total possible).

Applications should include:

- cover letter indicating the research area of interest
- current curriculum vitae
- list of publications (for Research Associate positions)
- academic transcripts
- contact information for 3 referees

To apply, please forward the requested documents to snt-jobs@uni.lu indicating the appropriate position (COGCOM, SATCOM or PHYCOM) before 21 October, 2011.

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