



Post Doc in Vehicular Ad-Hoc Networks

[080707]

Last day of application: September 1, 2008. Reference number: 2008/84

The open position is at the Department of Signals and Systems, Division of Communication Systems and Information Theory. The research at the division is focused on methods and algorithms for digital communication systems. We study systems such as ad-hoc networks for communication and sensor networks with focus on traffic safety, fibre-optic communication systems, the next generation wireless cellular communication systems, MIMO techniques, and ultra-wideband systems.

The open Post Doc position is targeted for research within vehicular ad-hoc networks with emphasis on

- Cross-layer design of medium access control (MAC) and physical layer to support future traffic safety systems
- Estimation of side information (e.g., channel state information, geographical position, network and node synchronisation) to support cooperative MIMO techniques, geographical routing, etc.

The work will be carried out in cooperation with other researchers and Ph.D. students and in interaction with vehicular industry.

We offer you great opportunities for personal development in a creative research environment with challenging research problems. We have a large international network of contacts, including distinguished researchers from both academia and industry. This position allows for a large degree of flexibility in choosing research topics. Included in your work is undergraduate teaching and co-supervision of Ph.D. students. You will attend international conferences to present your own work and establish useful contacts with other researchers. After completing the post doc, you will be in great demand from Swedish as well as international industry, and you will have a solid basis for a further academic career.

You must have very good knowledge about wireless communications and hold recent Ph.D. degree related to mobile ad hoc wireless networks. You must also have experience and interest in education. You should enjoy professional challenges, research collaboration, be curious, resolute and creative. The employment is 1+1 years, with a monthly salary paid.

More information about our activities at the Communication Systems Group within the Department of Signals and Systems can be found at www.chalmers.se/s2/EN/.

For more information, please contact:

- About the position: Prof. Erik Ström, phone +46 31 772 5182, email erik.strom@chalmers.se
- About our research group from a Post Doc perspective: Dr. Andreas Wolfgang,

phone +46 31 772 3392, email andreas.wolfgang@chalmers.se

The application must contain: Curriculum Vitae (CV), M.Sc. and Ph.D. diplomas and transcripts, a description of your research and pedagogical qualifications, a complete list of publications, copies of your best scientific publications (not more than 5), contact details of reference persons and a short (max one page) description of your strengths relevant for the position.

The preferred application format is a single PDF file, submitted by email to the address below. Multiple files may be compressed (zipped). Mark the first page of your application with reference number 2008/84. Last day for application is September 1, 2008.

Send the complete application in one e-mail to registrator@adm.chalmers.se

You can also mail your application to:

Registrator
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Union representatives:

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Call +46 31 772 10 00, Chalmers switchboard

Keywords

Post Doc position, ad-hoc networks, vehicular networks, traffic safety, medium access control, synchronization, channel estimation, traffic safety, cross-layer design

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