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Swiss Federal Institute of Technology Zurich

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The **Wireless Communications Group (WCG)** at the Communications Technology Laboratory (Institut für Kommunikationstechnik - IKT), ETH Zurich, is offering

PhD Positions

Our research is focused on communication theory, signal processing and cooperative signaling & protocols. The activities are organized into the main areas *Cooperative Wireless Communications (CWC)*, *Ultra-Wideband (UWB) Communication* and *Nano Communication*. They define a generic framework for the RTD efforts of the group. For more information please visit our website: www.nari.ee.ethz.ch/wireless/.

Currently, we have PhD positions available in the following areas:

Cooperative Wireless Communications

- Cooperative MIMO communication beyond 10GHz.
- Cooperative signaling and relaying in cellular networks

Ultra-Wideband

- Ultra-low power scalable sensor networks
- Joint optimization of communication, localization and imaging in UWB based hybrid body area and local area networks

Nano Communication / Nanoscale Networks

- Nanoscale signal processing and communication theory
- Localization in nanoscale networks based on electromagnetics and smart nanonodes

We expect an excellent degree in electrical engineering or equivalent disciplines. A Master's thesis in the area of wireless communications is not required but would be helpful. You should be fluent in English (written and spoken). Knowledge in German is welcome, but not mandatory.

We offer excellent supervision and infrastructure, cutting edge research in an international team, and a competitive salary commensurate to the rules of ETH Zurich. The teaching duties include support and supervision of students in lectures, exercises and labs, seminar projects as well as Master's and Bachelor's theses.

Your application should at least comprise: An application letter in which you point out why you are interested in our work, a detailed curriculum vitae, together with a list of grades as well as other academic achievements and a short description of your Master's thesis together with the name of your thesis supervisor. We cannot process your applications if it is incomplete or not meaningful.

Please send your application to:

Dr. Marc Kuhn,
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