



JOB OPENING

We are looking for a

PostDoc / PhD Student in Berlin

Scope: E2E Wireless Networking for 5G Wireless Networks

Employer: Heisenberg Communications and Information Theory Group

Location: Freie Universität Berlin

Starting: June 2017 (01.06.2017)

Group description

The **Heisenberg Communications and Information Theory Group at Freie Universität Berlin**, Department of Mathematics and Computer Science, is directed by Gerhard Wunder. The working group is active in Future Wireless Networks (5G Mobile Communication), Massive Internet of Things, Tactile Internet and Security. Main working areas are the **application of communication and information theory, mathematical optimization and statistics plus advanced signal processing**, e.g. **compressed sensing**, in these fields. You can find further details at <http://www.mi.fu-berlin.de/en/inf/groups/ag-comm/index.html>.

Job description

The group is seeking an **outstanding PostDoc (preferred) or PhD Student** in the field of E2E Wireless Networking for 5G Wireless Networks, specifically in the field of multi-service operation, SDN, virtualization, and virtual base station design in the CRAN/DRAN. The candidate will **develop and implement wireless network protocols**, and assess their performance towards fundamental limits, to enable 5G virtual base station design with E2E performance requirements. The project is part of the EU H2020 5GPPP flagship project ONE5G on the development of the upcoming 5G New Air Interface.

Requirements

Applicants must possess a **master degree in computer science, mathematics, electrical engineering or similar**. Applicants with **strong skills in mathematics** will be given preference.

Desirable

The candidate is expected to have a profound knowledge in the field of **wireless networking** (particularly SDN) as well as **controlled queueing systems** and **modern graph theory**. Additional knowledge on fundamental information-theoretic limits for cooperative wireless networking is desired.

To be considered please send a short cover letter outlining your background, a detailed CV including possibly some references, and all relevant certificates to g.wunder@fu-berlin.de.