6 PhD positions in the TUDelft-KPN collaboration NExTWORKx

**Faculty/department** Electrical Engineering, Mathematics and Computer Science  
**Level** Master degree  
**Maximum employment** Maximum of 38 hours per week (1 FTE)  
**Duration of contract** 4 years  
**Salary scale** €2222 to €2840 per month gross

Electrical Engineering, Mathematics and Computer Science

The faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) is known worldwide for its high academic quality and the social relevance of its research programmes. The faculty’s excellent facilities accentuate its international position in teaching and research. Within this interdisciplinary and international setting the faculty employs more than 1100 employees, including about 400 graduate students and about 2100 students. Together they work on a broad range of technical innovations in the fields of sustainable energy, telecommunications, microelectronics, embedded systems, computer and software engineering, interactive multimedia and applied mathematics.

Job description

Delft University of Technology and KPN, the leading fixed and mobile telecom operator in The Netherlands, have started a collaboration, called NExTWORKx. Goals of this collaboration include excellent academic research into both fundamental properties and implementation of the next generation telecommunication networks. In the first phase of the collaboration, 6 PhD students, daily supervised by experts in both TUDelft and KPN, will focus on themes that are relevant for KPN in order to design and manage the network of the future using promising technologies as Artificial Intelligence (AI), 5G and Blockchain. A weblink to the press release is


In particular, 6 PhD openings are defined on the following themes: (a) 3 PhD positions on AI-networking, (b) 2 PhD positions on 5G networking and (c) 1 PhD position on Blockchain-inspired technology

Ideal candidate

We are looking for brilliant PhD candidates with a strong interest to join a university-company collaboration on future Networking. The ideal candidate is multidisciplinary, well-versed in telecommunications (protocols, architectures, design and performance), algorithms, probability theory, data science and network science.

Because of project definitions, we are looking for EU citizens.

Conditions of employment

The TU Delft offers a customisable compensation package, a discount for health insurance and sport memberships, and a monthly work costs contribution. Flexible work
schedules can be arranged. An International Children’s Centre offers childcare and an international primary school. Dual Career Services offers support to accompanying partners. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

As a PhD candidate you will be enrolled in the TU Delft Graduate School. The TU Delft Graduate School provides an inspiring research environment; an excellent team of supervisors, academic staff and a mentor; and a Doctoral Education Programme aimed at developing your transferable, discipline-related and research skills. Please visit http://graduateschool.tudelft.nl/ for more information.

**Information and application**

For more information about this position, please contact Prof. P. Van Mieghem, e-mail: p.f.a.vanmieghem@tudelft.nl. To apply, please e-mail a detailed CV along with a letter of application by June 1, 2018 to Lotte Ophey at HR-EEMCS@tudelft.nl, with a clear choice for only 1 of 3 themes (a) to (c) above.

When applying for this position, please refer to vacancy number EWI2018-22.