Post-doc in Data Analytics and Machine Learning for Internet of Things

**Department/ faculty:** Industrial Design Engineering  
**Level:** PhD degree  
**Working hours:** 38 hours per week  
**Contract:** 1 year  
**Salary:** €3427 to €4028 per month gross

**Industrial Design Engineering**

The Faculty of Industrial Design Engineering is world-leading in design education and research, integrating design knowledge about people, technology and business into solutions that are desirable, feasible and viable. The Faculty consists of 25 full Professors, 120 faculty members, 120 PhD students and about 2000 Bachelor and Master students. At IDE we believe that by creating insights into people and society, and by developing foresights on how technology can improve our future, we enable designers to be inspirational yet realistic leaders that can move the needle towards a better future.

The Department of Design Engineering aims at exploring and disseminating new research knowledge to the international scientific community as well as to its educational programmes at the bachelor, master and PhD levels. The focus is on incorporating new developments in materials and materials processing with hardware, software and cyberware technologies into products and services. Integration of expertise domains such as emerging materials, advanced mechatronics, Internet of Things, cyber-physical systems and digital manufacturing with sustainability and circular economy considerations raises complexities that are addressed with regards to both systems and processes.

**Job description**

The Design Engineering Department in collaboration with the Amsterdam Institute of Advanced Metropolitan Solutions (http://www.ams-amsterdam.com) seeks a highly qualified postdoctoral researcher with strong background in data science, machine learning or artificial intelligence related to the Internet of Things. We are particularly looking for candidates with experience in one or more of the following areas:
- interactive and visual analytics,
- interactive machine learning or
- real-time stream processing.

The successful candidate will work in one of two projects: (1) data analytics methods for connected dementia care (with Philips) or (2) integrating Internet of Things, Data Analytics, and 3D-printing for the built environment (with Autodesk).

The successful candidate will join an interdisciplinary research environment with computer scientists, designers, human-computer interaction researchers and industrial engineers. Place of work is Delft and Amsterdam. Start date for the position is immediate. The position is limited to 1 year. A tenure track assistant professor position in the same area will be opened soon.

**Requirements**

Qualifications:
- PhD degree in Computer Science, Engineering or related disciplines,  
- Excellent publication track record in data science, machine learning or artificial intelligence,  
- Experience in developing data analytics and machine learning algorithms,  
- Strong software development skills with ability to design and build data-intensive systems,  
- Background in the Internet of Things related to smart products, smart cities healthcare or similar,  
- Excellent English language skills (written and spoken),  
- Strong communication skills and ability to work in a highly interdisciplinary environment.

**Conditions of employment**

The TU Delft offers a customisable compensation and benefit package, including 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, before- and after-school care 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.

**Information and application**

For more information about this position, please contact Prof. Gerd Korteum, phone: +31 (0)6 87197401, e-mail: g.w.kortuem@tudelft.nl. To apply, please send a detailed CV along with a letter of application (please include date of availability), a research statement (max. two pages), names and contact information of three references by November 30, 2017 to Sara Bedin, s.bedin@tudelft.nl. When applying for this position, please refer to vacancy number ATIO-0734.