Assistant Professor in Blockchain-related Computer Science

Delft University of Technology, the Netherlands

The Delft Blockchain Lab (DBL) of Delft University of Technology invites applicants for a tenure-track appointment at the Assistant Professor level in any blockchain-related topic in Computer Science in the Faculty of Electrical Engineering, Mathematics and Computer Science. DBL takes a holistic approach to developing scalable, robust, reliable, privacy-sensitive and secure blockchain systems. Therefore, both applicants with a strong background in system aspects of blockchain, including but not limited to scalability, efficiency, trust, and attack resilience, and applicants with a strong background in fundamental aspects of blockchain, including but not limited to cryptography for formal security proofs and privacy-preserving authentication, consensus mechanisms, and smart contract validation, are encouraged to apply. We are looking for an exceptional individual who has the potential to become an outstanding research and education leader.

The Delft Blockchain Lab
The Delft Blockchain Lab (DBL, https://www.tudelft.nl/delft-blockchain-lab), under the leadership of Prof. Dick Epema and Dr. Johan Pouwelse, brings together all blockchain-related research of TU Delft. DBL is largely based in the two Computer-Science Departments Intelligent Systems (in particular, the Section Cybersecurity) and Software Technology (in particular, the Sections Distributed Systems and Software Engineering). However, it also performs research into ethical and science communication aspects of blockchain and into applications of blockchain such as intelligent power grids. Its research roadmap calls for the design, deployment and analysis of a complete blockchain-based software stack for trust in the internet, together with research into the fundamental aspects that support this design. DBL strongly builds on more than a decade of research in peer-to-peer and reputation systems at TU Delft, and has grown into one of the larger blockchain labs in Europe. It has produced several world-first innovations such as a fully scalable blockchain architecture and a decentralized blockchain-regulated market, and it has replaced proof-of-work with trust.

The Departments Intelligent Systems and Software Technology
The Departments of Intelligent Systems (INSY) and Software Technology (ST) together constitute one of the leading Dutch departments in research and academic education in computer science, employing over 300 people. The departments together are responsible for the curriculum of the bachelor’s and master’s programmes in Computer Science as well as the master’s programme in Embedded Systems. The inspiration for its research topics is largely derived from technical ICT problems in industry and society related to cybersecurity, computer graphics, artificial intelligence, machine learning, large-scale distributed processing, embedded systems, programming productivity, and web-based information analysis.

The Faculty 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. Offering an international environment, the faculty has more than 1100 employees (including about 500 PhD students) and more than 3000 bachelor’s and master’s students. Together they work on a broad range of technical innovations in the fields of electrical sustainable energy, microelectronics, intelligent systems, software technology, and applied mathematics.
The Delft Blockchain Lab is looking for a talented, ambitious, and enthusiastic individual. His/her responsibilities include:

- Conducting blockchain-related research in any subfield of computer science, including the (co-)supervision of PhD students, collaboration with other academic partners and industry, and acquiring external research funding and (co-)managing externally funded research projects. The successful candidate will become a member of the section in the Department INSY or ST that is most appropriate to his/her research;
- Teaching and developing new education at the undergraduate and graduate levels, including the supervision of bachelor’s and master’s students in their graduation projects;
- Transferring knowledge and technology to external parties;
- Performing department and faculty management tasks.

The successful candidate is expected to significantly strengthen the research portfolio in blockchain technology of the Delft Blockchain Lab.

The TU Delft Tenure Track (http://www.tudelft.nl/tenuretrack), a process for Assistant Professors leading up to a permanent appointment with the prospect of becoming an Associate or a Full Professor, offers young, talented academics a clear and attractive career path. During the Tenure Track, TU Delft offers a structured career and personal development programme, and the successful candidate will have the opportunity to develop into an internationally acknowledged and recognised academic.

Requirements
Applicants must have a PhD degree in a blockchain-related subfield of Computer Science, a proven track record of research excellence, the ambition to strengthen and expand the research and teaching of the Delft Blockchain Lab, a team player mentality, and good communication and social skills. Preferably, the successful candidate has experience in teaching at the university level.

Conditions of employment
Tenure-track Assistant Professor positions at TU Delft are offered for six years. Based on performance indicators agreed upon at the start of the appointment, a decision will be made by the fifth year whether to offer you a permanent faculty position.

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. The gross salary per month for this position is €3389 to €5656. In addition to your salary, at TU Delft you will receive an annual holiday allowance of 8% and a year-end bonus of 8.3% of your gross monthly salary.

TU Delft sets specific standards for the English competency of the teaching staff, and offers training to improve English competency.

Inspiring, excellent education is our central aim. If you have less than five years of experience and do not yet have your teaching certificate, we allow you up to three years to obtain this.

Information and application
For more information about this position, please contact Prof. D.H.J. Epema, phone: +31 (0)15-2783853, e-mail: D.H.J.Epema@tudelft.nl. To apply, please e-mail an application letter, a detailed curriculum vitae including a publication list, research and teaching statements, and the names of three references by January 6, 2020 to mr. E.C.L. Turlings, Hr-eemcs@tudelft.nl. When applying for this position, please refer to vacancy number EWI2019.10.