



International Postdoc Initiative Fellowships at TU Berlin

APPLICATION SUBMISSION DEADLINE: DECEMBER 14, 2018

Big data offers new possibilities for data processing and analysis. Using advanced machine learning methods, massive amounts of data can be analyzed with low latency. Thereby, enabling near real-time decision-making and actionability on new *discoveries* and *predictions* on complex relationships. However, these possibilities pose immense ethical challenges to data analysis with respect to algorithms, data processing, and systems. Thus, novel data management systems must be designed with key features, including diversity, fairness, neutrality, privacy, and transparency in mind.

The *Database Systems and Information Management* (DIMA) Group at TU Berlin strongly encourages qualified female researchers interested in conducting R&D in data management and information systems to apply. Fellows will be offered a unique opportunity to collaborate with researchers in the *Berlin Big Data Center* (BBDC) and the *Berlin Center for Machine Learning* (BZML). The goal of the proposed research project is to conduct research in the foundations of responsible data management and develop a prototype to demonstrate the abovementioned key features.

Applicants must have completed a PhD in the area of data management, have a strong publication record (e.g., at least three CORE A*/A conference publications), and possess the zeal to work in a leading research environment at the forefront of technology innovation. You should be interested in building data management systems and transferring research results into practical use. Moreover, a good command of mathematics and statistics, as well as good programming, analytical, and project management skills are desired. Proficiency in English is also a prerequisite for interested applicants.

The *International Postdoc Initiative* (IPODI) is part of a gender equality initiative at TU Berlin that aims to increase the number of women in leadership positions in science and research. The program seeks to attract high-caliber female researchers, regardless of their nationality or age. Researchers returning from periods of international mobility, mobility between sectors, or non-academic mobility (e.g., after parental leave) are especially encouraged to apply. The call for applications offers four two-year fellowships.

Berlin is a cosmopolitan, international city in the heart of Europe, with a large research and science ecosystem and an active startup scene, particularly, in information technology. TU Berlin is a leading science and engineering university in Germany. We house the German Node of the *EIT Digital* (the European Institute of Innovation & Technology) and established the *Einstein Center Digital Future* (ECDF), an inter-university nucleus for research on the digitalization of society. The TU Berlin School of Electrical Engineering and Computer Science is consistently ranked among the top academic institutions in global university rankings (e.g., CHE-ranking), with faculty members having garnered many prestigious awards.

For more information, visit the following websites:

1. IPODI Fellowships and Guide for Applicants: <http://www.ipodi.tu-berlin.de/>.
2. Database Systems and Information Management (DIMA) Group: <http://www.dima.tu-berlin.de/>.
3. TU Berlin: <http://www.tu-berlin.de/menue/home/parameter/en/>.
4. Berlin: <http://www.berlin.de/en/>.

For further information, contact Prof. Dr. Volker Markl at prof@dima.tu-berlin.de.