



Technische Universität Berlin



Technische Universität Berlin, Faculty VI – Planning Building Environment, Institute of Applied Geosciences together with the Helmholtz Centre Potsdam – GFZ German Research Centre for Geosciences offer an open position of a

## University Professor – salary grade W3

for the chair of “**Geothermal Energy Systems**”

**associated with the position of section leadership of “Geoenergy” at GFZ Potsdam. Organized as part of Department 4 “Geosystems”.**

### Faculty VI

**Reference number:** VI-144/19 (starting at 01/01/20 / unlimited / closing date for applications 08/04/19)

**Working field:** We are seeking highly qualified applicants with proven research experience in geothermal energy systems. This includes exploration and access of geothermal resources and development of sustainable technologies for their utilization.

The professorship is expected to contribute to major research areas of the topics “Georesources” and “Geoenergy” using a competitive infrastructure. Participation in existing departmental research both at GFZ and at TU Berlin and the setup of new major science projects is anticipated.

Future energy supply systems will utilize the geological subsurface in different ways:

1. Utilization of deep hydrothermal and petro-thermal systems for heat and power generation
2. Aquifer Thermal Energy Storage (ATES) technologies for energy storage
3. Power generation from high-enthalpy geothermal systems

A key future research focus will be on geothermal heat supply for urban areas.

Accessing geothermal energy requires the combined expertise in different geoscientific and engineering disciplines, including:

- Factors controlling the deep thermal domain in different tectonic settings and thus relevant for the exploration and utilization of geothermal resources
- Coupled thermal-hydraulic-mechanical-chemical processes, that influence the productivity and safety of geothermal utilization
- Technologies for well design, reservoir engineering and reservoir monitoring,
- Integration with processing and power plant technologies.

**Requirements:** The successful candidate is expected to have an international reputation and outstanding knowledge in geothermal energy systems (outstanding publication achievements, record of attracted external funding). Candidates must qualify for appointment according to the requirements of §100 of the Berlin State Higher Education Act (BerlHG); these entail a completed university degree, scientific qualifications (PhD as well as “Habilitation” or equivalent scientific achievements, i.e. publications) and an exemplary record of research achievement as an assistant / associate professor or university researcher and/or an outstanding career outside academia. Ability in and commitment to teaching are essential and the professorship will contribute to the teaching portfolio of the Institute of Applied Geosciences at TU Berlin. Didactic qualifications can, for example, be given proof of by a teaching portfolio (for more information see TUB website, quick access no. 144242). You should be willing and able to deliver courses in English. Additionally, a substantial degree of cooperation and experience in leading working groups is expected.

You can expect a very diverse and challenging job in an international work environment that is characterized by exciting research projects. The compatibility of work and family life is a special concern to us. Therefore, we offer the opportunity for flexible working time and workplaces. Moreover, there is a kindergarten located on the research campus at GFZ in Potsdam.

The GFZ and TU Berlin are partner with Geo.X ([www.geo-x.net](http://www.geo-x.net)), and as such are well connected with other geoscience institutions in Potsdam und Berlin. Geo.X forms the largest regional cluster of geoscientific expertise in Europe and offers excellent opportunities for cooperation and development.

Technische Universität Berlin is determined to increase the proportion of women in research and teaching and therefore strongly encourages qualified female researchers to apply. In case of equal merit, severely disabled candidates will be favored. TU Berlin values the diversity of its members and is committed to the goals of equal opportunities.

Technische Universität Berlin is a certified family-friendly higher education institution, and our Dual Career Service offers assistance to you and your family when relocating to Berlin.

The application documents should include a teaching and research portfolio. For more information see TUB website (quick access no. 143870).

Please send your application in German and/or English by **8th April 2019**, stating the **job reference number** and with the usual documents (i.a. CV, certificates, list of publications, list of third party funding, research and teaching concept, teaching portfolio, and – according to your best estimate – your five most important publications), **preferably in a single pdf file by e-mail to [berufungen@fak6.tu-berlin.de](mailto:berufungen@fak6.tu-berlin.de)** or in writing to Technische Universität Berlin - Der Präsident -, **Dekan der Fakultät VI Planen Bauen Umwelt, Sekr. A 1, Straße des 17. Juni 135, 10623 Berlin**. The total length of the application must not exceed 30 pages. Further documents may be requested at a later stage.

Please send copies only. Original documents will not be returned.

The vacancy is also available on the internet at  
<http://www.personalabteilung.tu-berlin.de/menuue/jobs/>

