

GEO.X WORKING GROUP GEOTHERMAL ENERGY



The Working Group Geothermal Energy is composed of scientists, who offer classes, or who would like to contribute to the development of courses on geothermal energy in the Berlin/Potsdam area. It aims to reach specifically students, who want to learn about these courses, but in general the working group is open to all people interested in the topic.

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More information

<https://www.geo-x.net/en/the-network/working-groups/wg-geothermal-energy>

Participating institutions

■ Helmholtz Centre Potsdam

German Research Centre for Geosciences

Section Geoenergy (coordinator)



■ Technical University of Berlin

Institute for Applied Geosciences



■ Free University of Berlin

Institute for Geological Sciences



■ University of Potsdam

Institute of Geosciences



GEO.X - THE RESEARCH NETWORK FOR GEOSCIENCES IN BERLIN AND POTSDAM

Through Geo.X, four universities and six non-university research institutions in the Berlin/Potsdam region combine their expertise on various geoscientific topics and cooperate in research and teaching as well as the joint use of scientific infrastructure. Geo.X promotes cooperation through start-up funding, supports the search for partners for cross-institutional research projects and is committed to promoting young researchers and a broad transfer of knowledge.

The Geo.X working groups are the driving force of Geo.X. They are oriented towards current initiatives, topics and challenges in their respective fields. Through scientific exchange, the geosciences in the Berlin/Potsdam region are to be optimally developed.



www.geo-x.net



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Geo.X

WORKING GROUP GEOTHERMAL ENERGY

- Courses on geothermal energy in Berlin and Potsdam
- Bachelor and Master Theses projects
- HiWi jobs, Internships
- Workshops, Events

funded by

HELMHOLTZ SPITZENFORSCHUNG FÜR GROSSE HERAUSFORDERUNGEN

BACKGROUND

Geothermal energy has the potential to make a significant contribution to meeting Germany's energy needs in a sustainable manner. In contrast to other renewable energies, it provides energy on a continuous basis and it can be used for base and peak load supply in the provision of electricity and heat. Aquifers can also be used for thermal energy storage (ATES) thus contributing in bridging energy gaps between summer-winter cycles.

Research on heat and cold storage is together with deep geothermal focus of energy research at GFZ. Together with the universities of Berlin and Potsdam, numerous national and international research projects have been carried out, dealing with geothermal energy from exploration and development to power plant technology.

Under the umbrella of **Geo.X**, the geoscientific competence network in Berlin and Potsdam, the **Geo.X Working Group Geothermal Energy** brings together the regional expertise in research and teaching in the field of geothermal energy. Teaching offers are to be optimised and new training formats developed. The aim of the working group is also to give students a comprehensive insight into the subject areas of geothermal energy, potential professional fields and teaching opportunities at the regional universities. In the long term, the development of a geothermal curriculum is aimed at.



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LECTURES, THESES, JOB OFFERS

Currently, the universities in Berlin and Potsdam do not yet offer a specialisation in geothermal energy. However, there are various modules within the framework of Master and Bachelor courses. For example, in the study courses Geosciences, Geoeiology, Hydrogeology and Geotechnologies, lecture series, workshops and excursions are offered on various basic and applied topics of geothermal energy.

■ Technical University of Berlin

Reservoir engineering, drilling technology, fluid-rock interactions, geophysical methods

■ Free University of Berlin

Geochemical processes, geothermal fluids and exploration

■ University of Potsdam

Heat transport processes, temperature distributions in the earth's crust

■ German Research Centre for Geosciences

As a non-university research institution, the GFZ conducts courses at all three universities.

Course offers, topics for bachelor and master theses, internships, HiWi job offers as well as workshops and events are regularly published on the website of the Working Group.