



The Chair of Applied Geology at GeoZentrum Nordbayern, University of Erlangen-Nuremberg, Germany is offering a

PhD position IN BIOGEOCHEMISTRY & STABLE ISOTOPE RESEARCH

We seek a highly motivated candidate for an interdisciplinary project on biogeochemistry of ground- and surface waters using aqueous chemistry and stable isotopes of dissolved and particulate carbon as well as dissolved oxygen. Studies will take place on open water systems including hydropower dams, lakes and rivers as well as in shallow groundwater systems. In addition laboratory experiments with algae and metal oxides for industrial production will be carried out.

Project objectives include establishment of oxygen and carbon dynamics in various water systems with determination of sources and sinks of oxygen and carbon including quantification of respiration and photosynthesis as well as atmospheric exchange.

We offer:

- Participation in an interdisciplinary research project
- A vibrant academic environment
- Well-equipped stable isotope and geochemical laboratories

Candidate profile:

- Master degree (or equivalent) in Natural Sciences
- Strong interest in biology and geochemistry
- Willingness to carry out fieldwork in Germany and overseas
- Ability to independently develop and perform experimental approaches
- Enthusiasm for scientific writing
- Scientific results are expected to be published in international journals and the candidate should also present results on conferences
- A valid EU rivers licence (B) would be an advantage.

Starting date should be July 2017 and the salary is TVL E13 up to 65 % together with health and social security benefits for 3 years. Please address further questions and applications (cover letter, motivation statement, CV, academic transcripts & certificates, publication list and contact details of referees **in one coherent PDF file**) to johannes.barth@fau.de before 21st of May 2017.