

## **Postdoc position on Biotic Consequences of Temperature-Related Stresses Across Temporal Scales (TRS-data)**

We seek a motivated and talented researcher for a Postdoc position in the DFG founded project on “Biotic consequences of temperature-related stresses across temporal scales (TRS-data)”. The position is temporary for 36 months (TV-L E13) and is anticipated to start in July 2016. Place of work is the GeoZentrum Nordbayern, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen.

This project is one of eight projects embedded in the interdisciplinary, multi-institutional Research Unit FOR 2332 TERSANE: Temperature-Related Stresses as a Unifying Principle in Ancient Extinctions. The research unit combines high-resolution geological field studies with meta-analyses, physiological studies and sophisticated analysis of fossil occurrence data on ancient hyperthermal events to reveal the rate and magnitude of warming, potential causes, impact on marine life, and the mechanisms which led to ecological change and extinction. Geochemistry, analytical palaeobiology and physiology comprise our main toolkits. More information on TERSANE is available at: <https://www.gzn.fau.de/palaeoumwelt/projects/tersane/>

*Tasks:* The successful candidate will be involved in (1) meta-analyses on the synergetic effects of warming, ocean acidification, and hypoxia on the performance of extant marine organisms; (2) the analysis of primary fossil occurrence data to evaluate the physiological and biogeographic selectivity of the end-Permian and Early Jurassic extinctions; (3) the assessment of ancient rates of climate and environmental changes from local sections and global data considering the effects of temporal scaling; and (4) integration of research findings in individual projects to evaluate the commonality of patterns and eco-physiological selectivity of extinctions as visible in paleo- and extant data. Applicants are expected to participate in the weekly informal seminar, annual workshops and international summer schools with other members of the research unit.

### *Requirements:*

Mandatory requirements are:

- PhD degree in geology or biology
- Advanced knowledge of statistics and R programming
- High degree of initiative and motivation
- Ability to work as part of a team
- Fluent in English

Desirable are:

- Background in invertebrate palaeontology
- Experience in meta-analyses

Please submit your application in electronic form (including curriculum vitae, list of publications, statement of research interests; keyword "TRS-data") by 10 May 2016 to

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