Research for the Environment

HELMHOLTZ CENTRE FOR ENVIRONMENTAL RESEARCH – UFZ

The Helmholtz Centre for Environmental Research - UFZ is a research institution within the Helmholtz Association. It provides scientific contributions to the safeguarding of the natural basis of life and of human development potentialities for current and future generations under the challenges of global and climate change. In this way the UFZ contributes towards a sustainable development.

The Department of Effect-Directed Analysis at the Helmholtz Centre for Environmental Research GmbH - UFZ is offering two positions for three years within the EU funded Initial Training Network project 'Innovative biodiagnosis meets chemical structure elucidation – Novel tools in effect directed analysis (EDA-EMERGE)

for two **PhD students** (Early Stage Researchers) (f/m)
code digit 153/2011

for the Work package "Chemical tools".

EDA-EMERGE is a multidisciplinary consortium of 14 academic and industry partners across 8 European countries, which will develop and apply novel integrated biological and chemical tools to support the identification and monitoring of emerging toxicants on a European scale.

The PhD students will have the opportunity to combine innovative research in one of the leading research groups in the field of effect-directed analysis, secondments in renowned academic and private sector partner institutes and intensive collaboration in a common European scale monitoring and higher tier EDA program with high-quality training in a summer school and scientific and soft-skill courses.

The PhD students

- will develop, advance and apply strategies and methods for structure elucidation of polar toxicants applying accurate mass LC-MS^n approaches, diagnostic derivatisation techniques and computer tools for retention and fragmentation prediction
- will apply these methods together with bioassays and fractionation techniques in effect-directed analysis of water samples from European sites in collaboration with the fellows at the partner institutes
- will increase their understanding of monitoring and compound prioritisation within the European Water Framework Directive by exchange with the relevant European institutions.

Applicants should have a MSc degree preferable in **chemistry or environmental sciences** with in-depth expertise in environmental and analytical chemistry and basic knowledge in ecotoxicology. Knowledge in structure elucidation, mass spectrometry, chromatography, derivatisation techniques, as well as computer skills is appreciated. The applicants should be enthusiastic for environmental research and international collaboration. We expect capacity for teamwork, excellent communication skills, flexibility, and an interest in interdisciplinary research.

In accordance with the Marie Curie rules of the European Commission:
The applicants should have less than 4 years full-time equivalent research experience from the award of the degree which entitles them to undertake a doctorate. Applicants can be of any nationality but at the time of selection must not have resided or carried out their main activity (e.g. work or studies) in Germany for more than 12 months in the 3 years immediately prior to the starting date of the fellowship.

The place of work is Leipzig, Germany. Salary and terms of employment will be in accordance with the Marie Curie rules of the European Commission (http://ec.europa.eu/research/mariecurieactions/careers_en.htm).
Applications are taken until the position is filled. Please send your complete application documents including a CV, motivation letter and copy of certificates under the code digit **153/2011** to the personnel department, P.O. Box 500136, D-04301 Leipzig, Germany or by e-mail to **application@ufz.de**.

Further Information can be obtained from:
Dr. Werner Brack, Tel. ++49-(0)341-235 1531, e-mail: werner.brack@ufz.de