

**Marie-Curie PhD position in Chemistry, Environmental Sciences and Geology
at the Helmholtz Zentrum München, Institute of Groundwater Ecology**

Title: Develop the use of compound-specific stable isotope analysis (CSIA) to investigate degradation of groundwater chemicals

Work package number: WP7

Objectives

Pioneer compound specific isotope analysis of new organic compounds
Trace reactive transport of these substances in natural and engineered aquifer (model) systems

Summary

Within the Research Training Network GOODWATER (WP 7), the candidate will analyze stable isotope fractionation in organic groundwater pollutants, with the aim to detect natural degradation reactions. The work will consist of analytical method development, degradation studies with microbial strains and isotope monitoring in an artificial aquifer flume. Close collaboration with other research fellows from partner institutions in Denmark and Belgium will include exchange visits and / or research stays.

Entry requirements

The ideal candidate should have

- Masters / diploma in chemistry, environmental sciences, geology or a related field
- Experience in GC-MS, LC-MS/MS, or related methods
- High motivation, like to work with others, integrate into a team

The researcher may be a national of a Member State of the Community, of an associated country or of any other third country. To be eligible you must not have resided or carried out your main activity in Germany for more than 12 month in the past 3 years.

The candidate also must not have more than 4 years research experience.

The network aims at a participation of at least 40% women in the vacant positions

Application

We expect successful candidates to join the network to the next possible timepoint.

Formal applications should be exclusively send **electronically** and should include:

- Full CV
- A statement of motivation (not more than one page)
- Copies of relevant exams, grades, master thesis work or publications
- Contact information to two reference persons

For more information, please visit: <http://www.helmholtz-muenchen.de/goodwater/home/index.html>

Please send your application electronically to:

Dr. Martin Elsner

Email: martin.elsner@helmholtz-muenchen.de

Institute of Groundwater Ecology

Helmholtz-Zentrum München