

Opening for a PhD stipend

At Aarhus University, Department for Environmental Science there is a vacancy of a PhD position (1/9/2014-30/8/2017) on Biocides in materials, photooxidation of biocides and life cycle assessment of biocides in buildings.

The position is financed partially via one projects financed by the Environmental Protection Agency of Denmark. This project includes analysis and studying of processes of biocides especially transport through the respective building materials and photodegradation on their surfaces.

Qualifications: The prospective candidate is expected to hold a masters obtained in Environmental Science or Environmental Engineering (If the degree is not yet fully completed, a statement of the supervisors need to be added). The candidate should have strong capabilities in Environmental- or Analytical Chemistry or in material science. Considering the focus of the project working experience with the following issues are of advantage for the candidate:

- 1) HPLC-MS/MS as quantification method from environmental samples incl. operation and maintenance of instrument,
- 2) analyzing biocides from water and solid matrices,
- 3) high throughput HPLC-analysis to analyze hundreds of samples per experiment
- 4) handling different classes of biocides
- 5) knowledge on usage and properties of biocides
- 6) demonstrated capabilities to write reports and scientific papers
- 7) sorption of biocides to solid materials
- 8) experiences in partitioning processes of biocides between render materials and water
- 9) experience in identifying and quantifying photooxidation products.

The supervisors will be Kai Bester and Marianne Thomsen.

Interested candidates should contact Kai Bester kb@dmu.dk as quickly as possible