Database developer and Data Scientist in Computational Toxicology

Norsk institutt for vannforskning, Økotoksikologi

The Norwegian Institute for Water Research (NIVA) is Norway's leading institute for basic and applied research on marine and freshwaters. The institute's research comprises a wide array of environmental, climatic and resource-related fields. NIVA's world-class expertise is multidisciplinary with a broad scientific scope. We combine research, monitoring, evaluation, problem-solving and advisory services at international, national and local levels.

The NIVA group has approximately 340 employees. NIVA´s head office is in Oslo with regional offices in Bergen, Grimstad, Hamar, Copenhagen and China, a research station at Drøbak (Oslofjord), as well as subsidiaries in Tromsø and Chile.

The section for Ecotoxicology and Risk Assessment at the Norwegian Institute for Water Research (NIVA), performs research in ecotoxicology, microbiology, cell biology, toxicogenomics as well as chemical and environmental hazard and risk assessment. Computational Toxicology is one of our focus areas and we currently offer a 3 year Post doc vacancy to develop computer-assisted tools for hazard and risk assessments.

The Post doc is part of the Research Council of Norway (RCN) funded project "268294 - Cumulative hazard and risk assessment of complex mixtures and multiple stressors (MixRisk)" The project (www.niva.no/mixrisk) hosts several post docs, PhD and Msc. students, and aim to use computational and experimental methods to develop, evaluate and implement cumulative hazard and risk assessment for marine and coastal aquatic ecosystems.

Job description

- Develop and maintenance of databases
- Development of statistical and machine learning algorithms for calculation of hazard and risk from multiple stressors
- Development of graphical user interfaces and web applications
- Contribute to NIVAs computational toxicology program
- Perform original research and develop scientific publications

This will be a team effort where the successful candidates will work closely with colleagues in the MixRisk project and other researchers across NIVA's research domains.

Qualifications
A PhD (or equivalent professional experience) in computer science, life science, mathematics, statistics, software engineering, or related fields is required. Experience within the field of (eco)toxicology, biology, chemistry, physics, and in particular computational toxicology and/or hazard and risk assessment is considered an advantage. A good command of English is also mandatory.

Documented knowledge, skills and experience in some of the following topics is desirable:

- System administration (Windows and/or Linux/Unix platforms)
- Relational databases
- Python, Java, JavaScript, HTML5, and R
- Web application frameworks and servers (Flask, React, etc.)
- Statistics and machine learning
- Git and GitHub or other version control systems
- Use and deployment of software on public cloud infrastructure
- Environmental or applied sciences

Personal qualifications
We are looking for an enthusiastic, goal-oriented candidate with good communication skills, who wishes to work in a broad, interdisciplinary and international research group with colleagues from a range of backgrounds. The ideal candidate is eager to learn new technologies, develop new solutions and use these to implement user friendly solutions within the field of Computational Toxicology.

By joining NIVA you'll be part of an enthusiastic team of (eco)toxicologists, chemists, data scientists and engineers in a company with established expertise in the water domain. You'll participate in exiting research and development projects at the interface between (eco)toxicology, environmental research, IT and data science, and you'll have the opportunity to participate in designing and building NIVA's next generation data platform and products. Practical outcomes from the work will include implementing of the products in research, regulatory applications and environmental monitoring.

NIVA offers

- Challenging tasks at the leading national water research institute with a comprehensive international network of contacts and partners

Deadline for application:

20/04/2018

Key info:

Advertiser:
Norsk institutt for vannforskning, Økotoksikologi

Ref. nr.: 3746789390
Full or part time (%):
Full%
Temporary
Number of positions: 1

Contact info:

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Search criteria:

Location
Oslo

Industry
Education and research

Special field
Other

Role
Other

Job location:

Gaustadalléen 21, 0349
Oslo

Show job location on larger map

- Head office at the Oslo Science Park, nearby the University of Oslo, in which most partners within The Oslo Centre for Interdisciplinary Environmental and Social Research (CIENS) are located.
- Stimulating work environment with capable and dedicated employees.
- Competitive conditions and salaries, pension plans and insurance benefits