

## Environmental Engineer/Expert in Waste Water Treatment

DHI-NTU Water & Environment Research Centre and Education Hub is currently seeking to appoint an expert within biological waste water/used water treatment to work on research projects as soon as possible. The DHI-NTU Centre seeks to provide you with a transparent career path linked to continued development of your professional competencies.

The team focuses research and training activities on Industrial Water Management, Urban Water Management, Solid Waste Management, Environmental Risk Assessment and Decision Support Systems. Within the Urban Water Management group we need an expert to strengthen our R&D activities within optimization of biological waste water treatment plants.

### Responsibilities of Environmental Engineer/Expert:

- Work on research projects to manage and treat industrial and municipal waste water
- Review data including published reports and papers as well as process monitoring data
- Set up mechanistic modelling of biological treatment processes as well as filtration processes
- Calibrate these models against empirical data gathered in laboratory, pilot and full-scale studies
- Develop new elements of the existing models and new mechanistic models for improved understanding and control of fouling phenomena in filtration processes
- Conduct scenario analyses as part of predicting optimum operating conditions based on the developed models
- Assess the impacts of different operating conditions and control strategies on membrane fouling, effluent quality, operating costs, etc.
- Work within a team environment to address project and research needs
- Participate in processes concerning the development of research projects and ideas
- Responsible for working on multiple projects simultaneously as directed by management
- Participate in company meetings concerning projects and education program
- Document research work and results in reports and scientific papers
- Develop material for and conduct training courses

### Requirements of Environmental Engineer/ Expert:

- At least a Masters degree but preferably a PhD in a relevant field (Natural Science/Engineering)
- In depth knowledge in biological waste water treatment
- Experience in modelling of wastewater treatment processes using international recognized models such as ASM1, ASM2, ASM3, IFAS etc.
- Knowledge of physicochemical separation processes – especially membrane filtration
- Ability to take on projects or tasks on your own
- Advanced knowledge of Microsoft Office applications
- Above average written and verbal communication skills in English
- Strong time management and organizational skills with the ability to multi-task
- Able to work independently as well as in a team to complete projects on time
- Desire to stay up-to-date on current and emerging technologies
- Provide solutions and exceed expectations of DHI's clients and management
- Responsible for meeting set goals and deadlines as determined by management
- Willing to work after office hours whenever required

### Pay:

Attractive remuneration package based on experience and educational qualifications

If interested, please send your detailed resumé to [hr@dhi.com.sg](mailto:hr@dhi.com.sg), indicating the position in the subject by 15 April 2009.