



PostDoc for Electron Microscopy (S/TEM) in Environmental Catalysis

How would you like to have the entire world as your workplace?

We are currently expanding our research activities in environmental catalysis through a new strong collaborative project "Clean-Air-Technologies by development of new catalysts" between Haldor Topsøe A/S, the iNANO center at Aarhus University and affiliated partners in SE, UK and USA. The project combines state-of-the-art characterization tools, surface science techniques, as well as catalyst testing and synthesis as a platform to tailor future catalytic solutions to our environmental challenges.

Your efforts will play an important role to further advance removal of environmental harmful constituents in oil products by MoS₂-based catalysis. Specifically, you will undertake experimental studies using single-atom sensitive (scanning) transmission electron microscopy (S/TEM) together with international leading collaborators at the Lawrence Berkeley National Laboratory (USA) and Daresbury SuperSTEM (UK), as well as in situ transmission electron microscopy at Haldor Topsøe A/S. The position is a two-year PostDoc position.

Your responsibilities

- experimental research related to our oil refining catalysts
- application of S/TEM with single-atom sensitivity and in situ capabilities
- develop our atomic-scale model for the MoS₂-based oil refining catalysis

You

- are committed, flexible, and full of innovative ideas
- are ready to face new challenges and like to take on responsibility
- possess excellent skills to evaluate and communicate results
- are enthusiastic about working globally at the frontier of catalysis sciences

Qualifications

Ideally, you have a Ph.D. in physics, chemistry, or a related field, and have an outstanding foundation in (scanning) transmission electron microscopy (S/TEM).

Further information

If you would like to be part of a team of skilled and dynamic colleagues in an informal organization, please send your application in Danish or English and enclose a copy of your exam certificates and any references via www.topsoe.com/jobs.

Haldor Topsøe is market leading in the field of heterogeneous catalysis. We supply catalysts and technologies for the refining industry, for cleaning power industry flue gases and for sustainable energy processes. In 2011 the turnover totaled 600 million Euro generated by our 2,300 employees around the world.

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| Application deadline: | April 1, 2013 |
| Expected start date: | By agreement |
| Location: | Lyngby (near Copenhagen, Denmark) |
| Further information: | Senior Research Scientist, Microscopy, Stig Helveg Mobile: +45 2275 4823 |
| Home page: | http://www.topsoe.com |

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