

Postdoctoral research fellowship – In Situ Characterisation of Catalysts

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At the Department of Chemical Engineering, NTNU a post doctoral fellowship is available for research on development of X-ray modulation enhanced techniques to study catalytic reactions at industrially relevant conditions. The fellowship is funded by the Norwegian Research Council.

The project deals with fundamental experimental studies of catalysts and reactor systems for sustainable energy production. The main focus for the Catalysis group at NTNU is the development of catalytic processes for more efficient and environmentally friendly utilisation of Norwegian oil and gas resources, but also renewable resources. This project is aimed towards enhanced (surface) sensitivity of synchrotron-based techniques by using Modulation Enhanced Diffraction (MED) and Modulation Excitation Spectroscopy (MES). The work will be carried out in close collaboration with the Swiss-Norwegian Beamlines (SNBL) at ESRF France, and the Institute of Chemical Research of Catalonia (ICIQ), Spain. The postdoctoral fellow will stay for extended periods at the ESRF.

The fellowship is funded for 3 years and relevant background from a PhD in chemical engineering, material science, physics or chemistry is required. The candidate should have good experimental skills and be familiar with advanced data analysis and modelling.

Information about the research group is available on the Department homepage:
<http://www.ntnu.edu/chemeng/kincat>

Submit your application by email to Professor Magnus Rønning, magnus.ronning@ntnu.no
Application deadline: March 5th, 2013.

The appointment of the Post doctor fellow will be made according to Norwegian national guidelines for universities and university colleges and to the general regulations regarding university employees. The positions adhere to the Norwegian Government's policy of equal opportunity regardless of ethnicity, age and gender. The position is remunerated according to the Norwegian State salary scale.

The application should contain:

- CV, including list of publications with bibliographical references
- Testimonials and certificates
- A brief description of the candidate's research experience and interests
- Other documents which the applicant would like to present

Joint works will be considered. If it is difficult to specify the input of the applicant in a joint work, a short summary should be attached outlining the applicant's input.