



## Catalysis Institute - Department of Chemical Engineering

**Professor Eric van Steen**  
**SARChI Reaction Engineering**  
Office. 5.29 · New Engineering Building  
Private Bag X3 · Rondebosch · 7701 · South Africa  
Telephone: (021) 650-5996  
Email: [eric.vansteen@uct.ac.za](mailto:eric.vansteen@uct.ac.za)  
Website: [www.chemeng.uct.ac.za/chem/staff/academic/vansteen](http://www.chemeng.uct.ac.za/chem/staff/academic/vansteen)

### POSTDOCTORAL FELLOWSHIPS IN HETEROGENEOUS CATALYSIS – MOLECULAR MODELLING

Postdoctoral fellowships are being offered in the Catalysis Institute in the Department of Chemical Engineering at UCT in the area of Reaction Engineering. The research to be conducted is intended to develop an understanding of oxidic support materials for catalysts with emphasis on the role of poisons on the stability of oxides. Applicants with specific experience using VASP and micro-kinetic analysis will be given preference.

The successful candidate will be encouraged to conduct his/her own self-initiated research during the tenure of the fellowship under the supervision of Prof Eric van Steen.

#### Conditions of Award:

- (i) Eligible applicants must hold a PhD degree in Chemistry, Physics, Material Science or Chemical Engineering with a strong background in molecular modelling. The PhD must have been granted within the past 5 years or satisfactory evidence that the PhD thesis has been submitted for examination must be provided.
- (ii) The successful candidate may, as part of their professional development, be required to participate in departmental activities such as limited teaching and supervision and duties incidental thereto, limited to 12 hours per week.
- (iii) The successful incumbent will be required to comply with the University's approved policies, procedures and practices for the postdoctoral sector, one of which being resident in Cape Town during the tenure.
- (iv) The candidate must not have had prior permanent academic or professional positions
- (v) Must be 60 years of age or younger.

**Value and tenure:** The Fellowship is valued at R300,000 per annum and does not include any fringe benefits. The Fellowship is renewable for one further year, contingent on satisfactory academic progress and on the availability of funds. Application to the SARS for tax-exemption is made by the University on behalf of the successful candidate.



## Catalysis Institute - Department of Chemical Engineering

**Professor Eric van Steen**

**SARChI Reaction Engineering**

Office. 5.29 • New Engineering Building

Private Bag X3 • Rondebosch • 7701 • South Africa

Telephone: (021) 650-5996

Email: [eric.vansteen@uct.ac.za](mailto:eric.vansteen@uct.ac.za)

Website: [www.chemeng.uct.ac.za/chem/staff/academic/vansteen](http://www.chemeng.uct.ac.za/chem/staff/academic/vansteen)

**Application procedure:** Suitable candidates are required to provide the following:

- a letter of application expressing research experience and interests;
- copy of latest academic transcript (PhD);
- a full CV, including details of publications; and
- names and addresses of at least two academic referees, with whom the applicant has worked.

Applications must be submitted to  
Prof Eric van Steen  
Catalysis Institute  
Department of Chemical Engineering  
Private Bag; Rondebosch 7701  
South Africa  
Tel: +27(021) 650-3796  
E Mail: [eric.vansteen@uct.ac.za](mailto:eric.vansteen@uct.ac.za)