



Department of Chemical Engineering

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Postdoctoral Research Fellowships in Nanocatalysis

The SARChI chair Nanomaterials for Catalysis invites applications for Postdoctoral Research Fellowships in the area of nanocatalysis, offered in the Catalysis Institute in the Department of Chemical Engineering.

Scope of the Research

The fellowships are intended to support the nanocatalysis research by contributing towards the understanding of specific aspects related to nanocatalyst preparation, characterisation, and performance evaluation. Ideally, the candidates should have a good understanding of heterogeneous catalysis, nanocatalyst preparation, catalytic performance evaluation, and advanced characterisation techniques. Candidates should be willing to travel to access advanced characterisation techniques not available at the home institution.

The Research Fellow will be required to:

- Design, prepare, and characterisation nanocatalysts;
- Evaluate the catalytic performance of the prepared nanocatalysts in relevant catalytic reactions;
- Present the results in scientific papers and at scientific conferences;
- Assist with the supervision of relevant undergraduate and postgraduate research projects;
- Assist with the identification of further research opportunities and initiate new postgraduate research projects.

In addition, the successful applicant will be encouraged and supported to conduct his/her own self-initiated research during the tenure of the Fellowship under the supervision of Prof Patricia Kooyman.

Tenure and Value:

The Fellowship is valued at R300 000 per annum and does not include any fringe benefits. Application to the SARS for tax-exemption is made by the University on behalf of the successful candidate. The Fellowships will be tenable from 1st June 2021 or as soon as possible for a one-year period and are renewable for two further years, contingent on satisfactory academic progress and the availability of funds.

Conditions of Award:

- Eligible applicants must hold a PhD degree in chemistry, chemical engineering, materials science, or a related field from any university but UCT.
- 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.
- The successful candidate will be required to register as a postdoctoral research fellow at the University of Cape Town and to comply with the University's approved policies, procedures and practices of the postdoctoral sector.

Application Procedure:

Suitable candidates are required to provide the following:

- a letter of application expressing research experience and interests;
- certified copies of all academic transcripts;
- a full CV, including details of publications; and
- names and addresses of at least two academic referees with whom the applicant has worked.

Eligible and complete applications will be considered by a selection committee. Complete applications must be submitted via email to patricia.kooyman@uct.ac.za.

The University of Cape Town reserves the right to:

- disqualify ineligible, incomplete and/or inappropriate applications,
- change the conditions of award or to make no awards at all