



1 x SENIOR LECTURER (4-YEAR FIXED TERM CONTRACT) and 1 x SENIOR LECTURER (PERMANENT)

Department of Chemical Engineering Faculty of Engineering and the Built Environment

The Department of Chemical Engineering within the Faculty of Engineering and the Built Environment at the University of Cape Town has an international reputation for excellence in teaching and research and invites applications from suitably qualified persons for these posts commencing 1 January 2024.

The Department is actively committed to teaching at undergraduate and postgraduate level and research. The undergraduate degree programme is ECSA accredited. Research is carried out in the areas of bioprocess engineering, catalysis and catalytic processing, engineering education, environmental and process systems engineering, hydrometallurgy, minerals processing, precipitation and crystallisation, and reaction engineering. Furthermore, the department houses strong inter-disciplinary research institutes and themes, such as the Future Water Institute and the Minerals-to-Metals initiative. The Department enjoys strong, global support for its teaching and research programmes, and maintains close links with the South African chemical, petrochemical, biotechnological and minerals industries.

Requirements for the positions:

- BSc (Eng) degree in Chemical Engineering or closely aligned engineering discipline
- PhD in engineering or closely aligned scientific discipline
- Teaching experience, preferably in a chemical engineering undergraduate curriculum
- Experience in supervision of undergraduate and/or postgraduate students
- Have defined area of research which can contribute to the current research portfolio of the department

The following will be advantageous:

- Ability to contribute to the teaching of the Department's engineering specialisation courses (offered in catalysis, bioprocess engineering, mineral and metallurgical processing, numerical simulation and optimisation, renewable energy, and industrial ecology and life cycle assessments)
- A track record of internationally accredited research publications and/or other traceable research outputs.
- Relevant industrial experience.
- Professional Engineering (PrEng) registration with the Engineering Council of South Africa (ECSA), or ability to register within 2 years.
- National Research Foundation rating.

Responsibilities include:

Teaching

- Contribute to the teaching of the core and specialist courses in the Chemical Engineering undergraduate curriculum, develop course material, and contribute to excellence in the operation of the Chemical Engineering teaching Programme by maintaining and growing the reputation of the programme.
- Supervise/co-supervise undergraduate students (research projects) and postgraduate students.

Research

- Contribute to the research expertise of the Department.
- Publish research outputs in accredited international journals.
- Raise research funding, apply for grants from appropriate national and international funding bodies.
- Develop/expand research collaborations within UCT as well as nationally and/or internationally.

Academic citizenship

- Perform administrative functions at Departmental, Faculty and, if needed, University level.
- Perform administrative functions related to teaching and research projects (i.e. convene courses, manage research teams, manage funding for research, monitor operational expenses, write progress reports).

Social responsiveness

- Actively engage in their professional capacity with industry, communities, and/or professional bodies.
- Translate research findings for relevant non-academic audiences.

The primary criterion for selection will be the quality of the applicant rather than the field of specialization, but we encourage in particular applicants with a research profile in bioprocess engineering, data science, and/or computational modelling to apply.

For further information about the position, please contact the Head of Department, Professor Aubrey Mainza, via email at Aubrey.Mainza@uct.ac.za

The annual cost of employment, including benefits, is **R1, 027 040**.

To apply, please e-mail the below documents in a **single pdf file** to Ms Abigail Dixon at recruitment03@uct.ac.za:

- UCT Application Form (download at <http://forms.uct.ac.za/hr201.doc>).
- A letter of motivation; and
- Curriculum Vitae (CV).

Please ensure the title and reference number are indicated in the subject line. Please indicate which position you are applying for.

An application which does not comply with the above requirements will be regarded as incomplete. Only shortlisted candidates will be contacted and may be required to undergo competency assessments.

Telephone: 021 650 1673

Website: www.chemeng.uct.ac.za

Reference number: E230276

Closing date: 07 August 2023

UCT is a designated employer and is committed to the pursuit of excellence, diversity, and redress in achieving its equity targets in accordance with the Employment Equity Plan of the University and its Employment Equity goals and targets. Preference will be given to candidates from the under-represented designated groups. Our Employment Equity Policy is available at www.uct.ac.za/downloads/uct.ac.za/about/policies/eepolicy.pdf.

UCT reserves the right not to appoint.