



JUNIOR RESEARCH FELLOW/RESEARCH OFFICER: BIOPROCESS ENGINEERING (3-Year Fixed Term Contract)

**Centre for Bioprocess Engineering Research (CeBER)
Department of Chemical Engineering
Faculty of Engineering & the Built Environment**

CeBER is an inter-disciplinary research centre, based in the Department of Chemical Engineering at UCT. It has a well recognised research portfolio in Biohydrometallurgy, Bioprocess Engineering, Bioproduct and bioprocess design through Alkane and Algal Biotechnology as well as Waste Biorefineries. The research portfolio is underpinned by a focus on sustainable development of processes, maximising resource efficiency and fit-for-purpose water through a circular economy and industrial ecology focus. At this time when South Africa has recognised the bio-economy as a focal point for development, CeBER is looking for two candidates with outstanding ability and research potential to appoint from August 2018.

The appointee to this contract position will be involved in research centered on the valorization of waste streams through new product and new process development using microbial and enzyme technology. The candidate will be expected to integrate sound biological knowledge with process engineering expertise, including process flowsheet development, techno-economic analysis, transport phenomena and sustainable development. The successful candidate will be expected to contribute to the delivery of a portfolio of research projects within the CeBER project grouping through active research, including hands-on laboratory-based research, to contribute to grant writing and academic writing in the form of technical reports and research papers, to advise postgraduate students on technical aspects of their research and to work closely as part of the interdisciplinary team.

The applicant **must** meet the following requirements:

- Masters degree in chemical engineering or, preferably, PhD degree in chemical engineering. A PhD in an allied discipline will be considered.
- Three years appropriate post PhD experience is required for the Research Officer position. Two years post Masters experience or a new PhD will be considered for the Junior Research Fellow position.
- Demonstrable strength in engineering applications.

Key competencies include:

- the ability to work as a member of an inter-disciplinary team;
- good interaction with and guidance of undergraduate and postgraduate students; and
- strength in technical writing and grant writing.

The annual remuneration, including benefits is as follows:

- **Junior Research Fellow:** R 415 578 – R 575 865
- **Research Officer:** R 478 207 – R 639 848

To apply, please e-mail the documents listed below 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>);
- Letter of Motivation; and
- Curriculum Vitae (CV).

Please ensure that the position title and reference number are indicated in the subject line of your email.

An application which does not comply with the above requirements will be regarded as incomplete. Only short-listed candidates will be contacted and may be required to complete competency assessments as part of the selection process.

Telephone: 021 650 1673
Reference number: E18257

Website: www.ebe.uct.ac.za
Closing date: 5 July 2018

UCT is committed to the pursuit of excellence, diversity and redress in achieving its equity targets. 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.