



Director: Centre for Bioprocess Engineering Research

**PROFESSOR SUE HARRISON**

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## Centre for Bioprocess Engineering Research (CeBER), University of Cape Town

### Post-Doctoral Fellowship Opportunity: Linking Microbial Ecology with Remediation Processes for Water

*Post-Doctoral research fellowship in the Centre for Bioprocess Engineering Research (CeBER) at the University of Cape Town*

The Centre for Bioprocess Engineering Research (CeBER) is looking for dynamic and motivated candidates to join a diverse team, working across a range of disciplines in the field of bioprocess engineering. The Centre is headed by Professor Sue Harrison, who holds the South African Research Chair in Bioprocess Engineering. Major research areas include biohydrometallurgy, algal biotechnology, bioreactor and bioprocess design, new bioproduct development, renewable energy, bioremediation, environmental biotechnology and sustainable bioprocesses. The Centre promotes an interdisciplinary approach, combining aspects of engineering, biological sciences, with modelling and simulations.

This postdoctoral fellowship provides an opportunity for the novel integration of the microbial ecology and enhanced bioprocess performance. Through unravelling of the microbial ecology of mixed microbial cultures implicated in bioremediation process strategies for the treatment of wastewaters and polluted waterbodies, the enhancement and tailoring of the performance of these processes can be achieved. The research will draw on the combining of molecular methods with process analysis and engineering to achieve its goals. Processes studied will include anaerobic digestion for value recovery, biological sulphate reduction, polishing of effluent streams through algal processes and prevention of acid rock drainage.

Suitable candidates must have obtained, or shortly expect to obtain, a Ph.D. in chemical engineering, chemistry, molecular biology, microbiology, biochemistry or related disciplines. Substantial experience in molecular biology and bioreactor studies is preferred. Where candidates have obtained a Ph.D., it must have been within the last five years. The successful candidate may not have held any prior permanent academic or professional posts.

The Centre encourages postdoctoral fellows to become involved in project development and the supervision of post-graduate students, providing excellent skills development and mentorship opportunities for researchers intending to pursue an academic or research career.

The value of the fellowship is R240 000 and it is tenable for one year. Renewal for a second year is possible, but is contingent on satisfactory academic progress.

To apply, candidates are invited to send a CV, including research experience, a list of research outputs and the contact details of two appropriate referees by e-mail to Ms Candice Mazzolini at [CeBER@uct.ac.za](mailto:CeBER@uct.ac.za).

Selection of eligible candidates will be made by the Director of The Centre for Bioprocess Engineering Research and a sub-committee drawn from academics in the Centre.

More information about CeBER, as well as the contact details of the academic staff members, is available on the Centre's webpage ([www.ceber.uct.ac.za](http://www.ceber.uct.ac.za)).

The University of Cape Town reserves the right to disqualify ineligible, incomplete and/or inappropriate applications, to change the conditions of award or to make no awards at all.