



PRINCIPAL TECHNICAL OFFICER (Payclass 11)

Department of Mechanical Engineering Faculty of Engineering and Built Environment

The University of Cape Town is in the top rank of Universities in South Africa, and the Department of Mechanical Engineering endeavors to contribute to this reputation. This is achieved through world class research in niche areas (e.g., structural impact and materials engineering, computational mechanics and fluid dynamics, engineering education, among others), as well as through excellent teaching based on sound pedagogical principles. The Department is well established, internationally accredited, and has historically produced some of the country's most competent mechanical engineers.

Applications are invited from suitably qualified and experienced candidates for the **permanent full-time position of Principal Technical Officer**, to commence duty as soon as possible.

As a successful candidate, you will provide a specialist electronics design, teaching, development, and support service to the teaching and research enterprise of the Department and support the smooth running of the total Mechanical Engineering plant. The incumbent will report directly to the Head of Department and line manage staff.

Requirements for the position:

- BTech, BEngTech, BSc(Eng) degree, or National diploma (or equivalent) in electrical, mechatronics or electro-mechanical engineering with specialization in mechanical engineering, with 5 years relevant experience.
- Experience in the design, development and implementation of analogue and digital electronic devices, including interfacing of complex electronic systems and peripherals in an ICT environment.
- Demonstrated supervisory/staff management skills with at least 2 years' experience.
- Demonstrated time-management skills and the ability to organize, prioritise and multi-task within a highly pressurized environment.
- Demonstrated experience in workflow management.
- Knowledge of Health and Safety regulations.
- Well-developed and professional interpersonal and communication skills.
- Demonstrated competence in programming.

The following will be advantageous:

- Experience in a higher education environment.

Responsibilities include:

- Successful design and development of electronic devices to support and improve teaching, research, and general Departmental activities.
- Training of staff and students in the safe operation of electronic equipment.
- Oversight of electronic equipment and consumables stores.
- Research and advise on the acquisition of new test and laboratory equipment in accordance with Departmental needs.
- Assist in the diagnosis and repair of equipment faults.
- Management and maintenance of Departmental Servers and Services hosted thereon.
- Provision of IT support to Workshop (technical) staff with respect to CAD and CNC operations (including 3D Printing / Rapid Prototyping).
- Assistance in the development, planning and execution of undergraduate practicals.
- Assist with undergraduate teaching as appropriate.
- Work closely with the Workshop Manager to support the reliable, safe and efficient running of the total Mechanical Engineering plant.

For more information about the details of this position please refer to the attached position description.

The 2022 annual remuneration package, including benefits, is negotiable between **R671 593** and **R790 107**, depending on the qualifications, skills, and experience.

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).

An application which does not comply with the above requirements will be regarded as incomplete and might not be considered. Only short-listed candidates will be contacted and may be required to undergo a health assessment and complete competency assessment/s as part of the selection process.

Telephone: 021 650 1673
Reference number: E230120

Website: www.mecheng.uct.ac.za
Closing date: 13 February 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.