



UNIVERSITY OF SOUTH AFRICA

UNISA is the only publicly funded Institution in South Africa dedicated to distance education. In keeping with its mandate as a comprehensive, open and distance learning tertiary institution offering a variety of academic and career-focused programmes, the University is inviting applications for positions in the **COLLEGE OF SCIENCE ENGINEERING AND TECHNOLOGY**.

To be considered for a position, applicants must meet all the generic requirements plus the specific requirements as stated per position. If found suitable for appointment, Unisa may offer an applicant a position at a level other than the level that was applied for. Furthermore, Unisa reserves the right to offer the applicant a contract appointment.

ACTIVITY:



TEACHING STATEMENT:

All applicants to attach a teaching statement (max 2 000 words) to their application as specified in one of the following options:

Option A: External applicants and internal applicants (from non-academic positions) – Describe how you intend to approach teaching and learning by taking into account the information in the policies listed below:

- Unisa's Tuition Policy
- Unisa's Open Distance Learning Policy
- Unisa's Assessment Policy
- Curriculum Policy
- Open Distance Learning (ODL) Pedagogy

The above mentioned Policies of UNISA can be accessed on the web using a search engine. In the event that you cannot trace the ODL Pedagogy policy finalise your teaching statement without it.

Option B: Internal applicants (from academic positions) –

Explain your:

- Involvement in, or approach to, Open Distance Learning
- Approach to fostering a learner-centered approach
- Involvement in, or approach to, teaching at either undergraduate or postgraduate level
- Involvement in developing study material as an individual or in a team approach
- The extent to which you have, or would, use an electronic learning platform for teaching
- Your pass success rates in the courses you teach/taught and your plan to increase or maintain these rates
- A peer and student evaluation of your teaching
- Your involvement in and provision of learner support to students

ACTIVITY:



The teaching statement must be supported by a portfolio of evidence which may be requested from short listed candidates at the interview.

Candidates are expected to submit a research reflection or portfolio

ACTIVITY:



APPLICATION FORM FOR A PERMANENT ACADEMIC POST

ACTIVITY:



FOR MORE INFORMATION ON ACADEMIC POSITIONS (LEVELS) OPEN THE LINK OF THE POSITION YOU WHISH TO APPLY FOR:

[POSITION: PROFESSOR](#)

[POSITION: ASSOCIATE PROFESSOR](#)

[POSITION: SENIOR LECTURER](#)



The following positions exist in the various departments:

**COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY
SCHOOL OF COMPUTING
SCIENCE CAMPUS (FLORIDA)
PROFESSOR X1 (P5) COMPUTER SCIENCE**

(ACADEMICS)	CANDIDATES WITH A RESEARCH OR ACADEMIC BACKGROUND
(NON-ACADEMICS)	CANDIDATES FROM INDUSTRY

Professor P5 (X1): Computer Science (Ref. CSET/JM/SOC/01-2021)

Post specific requirements for Professor:

- A Doctorate degree or equivalent in Computer Science (1 Position)
- Candidates should hold both an undergraduate degree and higher qualifications in Computer Science
- Proven research profile and consistent publication record in accredited journals, peer-reviewed conference proceedings, books or book chapters in line with the Unisa Research and Innovation Policy at this level: *Six (6) accredited research output points over the previous 5 years or four (4) accredited research output points over the previous 3 years*
- A proven record of supervision of postgraduate Masters and Doctoral students to completion
- Evidence of satisfactory student pass rates (where possible) in the past two years of employment at their institution

Field of Expertise for this position

- We are looking for candidates with expertise in at least two of the following fields: OO Programming; Parallel Programming; Networks; Theoretical Computer Science; Compiler Construction; Scientific Computing/Big Data Science; Logic-Based Reasoning/Hardware Programming; Artificial Intelligence; Natural Language Processing; Formal Program Verification; Graphical User Interface Programming; Advanced Internet Programming; Mobile Development; Computer Security

Recommendations:

- Experience to lecture in an online environment
- NRF rating or proof of application for NRF rating will be an advantage

**COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY
SCHOOL OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES
FLORIDA-SCIENCE CAMPUS (FLORIDA)
FULL PROFESSOR/ ASSOCIATE PROFESSOR IN ALGEBRA X1**

(ACADEMICS)	CANDIDATES WITH A RESEARCH OR ACADEMIC BACKGROUND
(NON-ACADEMICS)	CANDIDATES FROM INDUSTRY

Full Professor/ Associate Professor x1: Algebra (Ref. CSET/JM/Maths/02-2021)

Post specific requirements for Professor:

- A Doctorate degree or equivalent in Pure Mathematics (Algebra)
- Proven research profile and consistent publication record in accredited journals, peer-reviewed conference proceedings, books or book chapters in line with the Unisa Research and Innovation Policy at this level: *Seven (7) accredited research output points over the previous 5 years or five (5) accredited research output points over the previous 3 years.*
- A proven record of supervision of research Masters and Doctoral students to completion.

Post specific requirements for Associate Professor:

- A Doctorate degree or equivalent in Pure Mathematics (Algebra)
- Proven research profile and consistent publication record in accredited journals, peer-reviewed conference proceedings, books or book chapters in line with the Unisa Research and Innovation Policy at this level: *Six (6) accredited research output points over the previous 5 years or four (4) accredited research output points over the previous 3 years.*
- A proven record of supervision of research Masters students to completion.

Field of Expertise for this position

- We are looking for candidates who specialise in Pure Mathematics, particularly in Algebra

Recommendations:

- Ability to lecture in an online environment
- A strong publication record in Ring Theory
- An NRF rating or proof of application thereof would be an advantage

**COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY
INSTITUTE FOR NANOTECHNOLOGY AND WATER SUSTAINABILITY (iNanoWS)
PERMANENT POSITIONS
PROFESSOR X1
ASSOCIATE PROFESSOR X1**

The Institute for Nanotechnology and Water Sustainability (iNanoWS) is a research Institute of the College of Science, Engineering and Technology (CSET) that addresses current and emerging issues relating to Water Quality and Water Scarcity. iNanoWS focuses on the development of Nanotechnology enhanced smart materials and their application in Water Treatment and Water Sustainability. iNanoWS has two Research Focus areas namely Nanoscience and Water Sustainability. The Institute is further divided into the following thematic areas; Membrane Science and Technology, Nanostructured Materials, Applied Electrochemistry, the Urban Water Cycle and Water Treatment Technologies, Water and Health and Analytical & Environmental Research.

Full Professor x1: Nano-Structured Materials (Ref. CSET/JM/iNanoWS/03-2021)

Post specific requirements for Professor

Qualifications:

- Doctorate in Chemistry, Materials Science/Engineering, Nanoscience or equivalent

Requirements:

- Proven research track record in the synthesis of nanostructured materials and other materials based on composite structures with applications in Water Treatment.
- 5 years teaching/work/relevant experience
- Proven research profile and consistent publication record in peer-reviewed conference proceedings or journals in line with the Unisa Research and Innovation Policy at this level: Seven accredited research output points over the previous 5 years or five accredited research output points over the previous 3 years.
- A proven record of supervision of postgraduate (Masters and Doctoral) students to completion.
- A proven track record of successful mentoring of Postdoctoral Fellows.
- Mentoring of junior staff and the ability to attract external funding in the relevant field of research and collaboration with other researchers, both nationally and internationally.

Recommendations

- An NRF rating will be an added advantage
- Registration with South African Professional bodies such as SACNASP and ECSA

Associate Professor x1: Membrane Science and Technology (Ref. CSET/JM/iNanoWS/04-2021)

Post specific requirements for Associate Professor

Minimum Qualifications:

- A Doctorate in Chemistry, Applied Chemistry, Nanoscience or equivalent

Requirement:

- Candidate must have a proven track record in the field of Membrane Science and Technology for Water Treatment Purposes.

- The candidate must demonstrate excellent understanding of the fundamentals of membrane Technology; specifically, the design, preparation and application of innovative membrane material for various purposes such as water treatment, seawater desalination and gas separation.
- 4 years relevant teaching/work/relevant experience
- Proven research profile and consistent publication record in peer-reviewed conference proceedings or journals in line with the Unisa Research and Innovation Policy at this level: Six accredited research output points over the previous 5 years or four accredited research output points over the previous 3 years
- A proven record of supervision of postgraduate students (Masters and Doctoral) to completion.
- Involvement in industry-based research, community engagement and the ability to attract external funding.

Recommendation:

- Registration with South African Professional Bodies such as SACNASP and ECSA.
- A proven track record of successful mentoring of Postdoctoral Fellows

Salary : Remuneration is commensurate with the seniority of the position
Assumption of duty : As soon as possible.
Enquiries : 011 670 9081 Mr J Maano
Closing Date : 09 July 2021 (Email application before close of business at 16:00).

Your **APPLICATION FORM FOR A PERMANENT ACADEMIC POST** must be accompanied by a COMPREHENSIVE CURRICULUM VITAE and;

- identity document (*including passport, work permit, permanent residence permit or proof of nationalisation if applicable*) (certified copies within the previous six months);
- all educational qualifications (certified copies within the previous six months).
- academic transcripts/records (certified copies within the previous six months);
- proof of SAQA verification for foreign qualifications (*if applicable*) (certified copies within the previous six months)
- **for ACADEMIC POSITIONS** a teaching statement (refer to page 1 of advertisement).
- UNISA reserves the right to authenticate all qualifications without any further consent from the applicant.
- The contact details of three contactable references must be provided, one of which must be from your present employer excluding your current line manager if you are an internal Unisa applicant
- **Late, incomplete and incorrect applications will not be considered.**
- Unisa is not obliged to fill an advertised position
- *Appointments will be made in accordance with Unisa's Employment Equity Plan and other applicable legislation.*



- **We welcome applications from Persons with Disabilities**

ACTIVITY:



- Applications must be emailed to CSET2PA@unisa.ac.za
- If you apply for more than one position, each application must be on a separate email.
- Applications emailed to the wrong email address will not be considered.
- Late, incomplete and incorrect applications will not be considered.



All applications should reach UNISA before 16h00 on the closing date.

Correspondence will be limited to short-listed candidates only. If you have not been contacted within two months after closing date of this advertisement, please accept that your application was not successful.