



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

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

 **The following positions exist in the various departments:**

**COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY
IDEAS
5 YEARS CONTRACTS WITH BENEFITS
RESEARCH PROFESSOR (X1)/ ASSOCIATE PROFESSOR (X2)
RESEARCH PROFESSOR X1
ASSOCIATE PROFESSOR X2
SENIOR RESEACHER X5**

IDEAS (Institute for the Development of Energy for African Sustainability) is a new the Institute at UNISA. Research areas include waste to energy and improving energy efficiency of processes.

Research Professor (x1)/ Associate Professor (x2) (Fischer Tropsch)

Ref: CSET/TM/P//IDEAS/01/2017)

Post specific requirements

Qualifications:

- Doctorate in Chemical Engineering or Chemistry or equivalent

Requirements:

Candidates must have a proven track record in the field Fischer Tropsch with particular reference to design, construction and operation of plants, catalyst synthesis and testing. This track record should include evidence of publications in international journals, supervision of Masters and Doctoral students to completion, mentoring of junior staff, the ability to attract funding and collaboration with other researchers, both nationally and internationally.

Recommendation:

An NRF rating is a recommendation

Duties:

- Provide Leadership in the Fischer Tropsch Research Group
- Work with Industry and Government on Fischer Tropsch Projects
- Manage Fischer Tropsch Pilot plants

Research Professor (x1) (Biotechnology)

Ref: CSET/TM//P//IDEAS/02/2017)

Post specific requirements for Research Professor

Qualifications:

- Doctorate in Chemical Engineering or Biochemistry or Equivalent

Duties:

- Provide Leadership in the Biotechnology Research Group
- Work with Industry and Government on Biotechnology projects
- Manage Biotechnology Pilot plants

Requirements:

Candidates must have a proven track record in the field of biotechnology or bioprocessing with particular reference to anaerobic digestion and waste water treatment. This will include evidence of publications in international journals, supervision of Masters and Doctoral students to completion, mentoring of junior staff, the ability to attract funding and collaboration with other researchers, both nationally and internationally.

Recommendations:

- An NRF rating and professional registration with SACNASP.

Associate Professor (x2) (Process Synthesis)

Ref: CSET/TM//AP/IDEAS/03/2017)

Post specific requirements for Associate Professor**Qualifications:**

- Doctorate in Chemical Engineering or equivalent

Duties:

- Provide Leadership in the Process Synthesis Research Group
- Work with Industry and Government on Projects
- Manage Pilot Plants

Requirements:

- Candidates must have a proven track record in the field of Process Synthesis and Design. In particular experience in Fischer Tropsch and Gasification/Reforming will be an advantage. This track record should include evidence of publications in international journals and the supervision of Master or Doctoral students to completion.

Recommendations

- An NRF rating, ECSA accreditation or project management experience would be an advantage.

Senior Researcher (x2) (Fischer Tropsch)

Ref: CSET/TM/SNR/IDEAS/04/2017)

Post specific requirements for Senior Researcher**Qualifications:**

- Doctorate in Chemical Engineering or Chemistry or equivalent

OR

- Masters in Chemical Engineering or equivalent plus registration with ECSA and evidence of working towards a Doctorate.

Duties:

- Demonstrate Potential Leadership in the Fischer Tropsch Research Group
- Manage Fischer Tropsch Pilot Plants
- Work with Industry and Government on Projects

Recommendations:

- Candidates must have a track record in the field of Fischer Tropsch technology with particular reference to design, construction and operation of plants, catalyst synthesis and testing. This track record should include evidence of publications in international journals.

Senior Research (x3) (Mineral Processing)

Ref: CSET/TM/SNR/IDEAS/05/2017)

Post specific requirements for Senior Researcher

Minimum Qualifications:

- A Doctorate in Chemical Engineering or Extractive Metallurgy or equivalent
OR
- Masters in Chemical Engineering or Extractive Metallurgy or equivalent plus registration with ECSA and evidence of working towards a Doctorate.

Duties:

- Demonstrate Potential Leadership in the Minerals Research Group
- Manage Minerals Processing Pilot Plants
- Work with Industry and Government on Projects

Recommendations:

Candidates must have a track record in the field of Minerals Processing Research with particular reference to improving the efficiency of unit operations and processes. This track record should include evidence of publications in international journals on optimisation of minerals processing processes or operations.

**COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY
SCHOOL OF SCIENCE
DEPARTMENT OF CHEMISTRY
SENIOR LECTURER ANALYTICAL CHEMISTRY X1
3 YEARS FIXED TERM CONTRACT WITH BENEFITS**

The Department of Chemistry in the College of Science, Engineering and Technology at the Science Campus in Florida Park, Roodepoort, and Johannesburg invites applications for a position as Lecturer and/or a Senior Lecturer in Analytical Chemistry for a fixed term period of 3 years.

Minimum Requirements:

The required qualification is a Ph.D. degree in Chemistry with specialization in Analytical Chemistry. The applicant must have a minimum of two years of experience in teaching chemistry at undergraduate level. The candidate should demonstrate research experience in any of the following areas: sample preparation, chromatography and spectroscopy.

Duties

- Develop and teach analytical chemistry at second and third year
- Develop and conduct practicals for second and third year undergraduates
- Develop and teach practical module for general chemistry students
- For Senior Lecturer, one will also be required to participate in the tuition of honours analytical chemistry
- For Senior Lecturer, one will be expected undertake research for self-development and capacity development
- Participate in community engagement programmes
- Serve in committees within the department

Assumption of duty : As soon as possible

Enquiries :
Mr Titus Masego (Tel. 011 670-9237)

Closing Date : **7th April 2017** (Deliver application before close of business at 16:00)

Your **APPLICATION FORM FOR A PERMANENT ACADEMIC POST** must be accompanied 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*



ACTIVITY:



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

- Applications must be posted to Unisa, Science Campus –Florida, College of Science Engineering and Technology, Human Resources, Attention: Mr Titus Masego, P Bag x6 ,Florida,
- Hand delivered applications can be deposited into the Application Box (marked COLLEGE OF SCIENCE ENGINEERING AND TECHNOLOGY) situated at the Science Campus-Florida Corner of Christian de Wet and Pioneer Road , Florida, NB Pityana Building, First Floor, in front of Room 1-23.
- If you apply for more than one position, each application must be in a separate envelope.



- **Applications which are posted in the wrong application box will not be considered.**
- **Applications via email will not be considered.**
- **Late, incomplete and incorrect applications will not be considered.**

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.