

Senior Lecturer or Lecturer in Metallurgy and Materials
Engineering (1x position)
University of the Witwatersrand

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Posted Jun. 25, 2025, set to expire Oct. 27, 2025

Job Title	Senior Lecturer or Lecturer in Metallurgy and Materials Engineering (1x position)
Department	School of Chemical & Metallurgical Engineering
Institution	University of the Witwatersrand Johannesburg, Gauteng, South Africa
Date Posted	Jun. 25, 2025
Application Deadline	Jul. 25, 2025
Position Start Date	As soon as possible
Job Categories	Lecturer/Instructor Senior Lecturer
Academic Field(s)	Material/Metallurgy
Job Website	https://irec.wits.ac.za
Apply Online Here	https://irec.wits.ac.za

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Job Description

The School of Chemical and Metallurgical Engineering invites applications from suitably qualified candidates for appointment as a Senior Lecturer (or Lecturer) in the field of Metallurgy and Materials Engineering with specialisation in process pyrometallurgy. The position entails teaching students in the fields of non-ferrous and ferrous pyrometallurgy, hydrometallurgical process modelling, simulation and design, phase equilibria and metallurgical thermodynamics. However, experience in teaching a number of general process metallurgical engineering subjects will be an added advantage. The ideal candidates should have a strong academic interest in teaching and research.

Qualifications and Requirements:

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Applicants for the position should possess a first degree in Metallurgy and Materials Engineering, as well as a PhD degree in a related field. Registration or eligibility for registration as a professional engineer (Pr.Eng.) will be a distinct advantage. A reasonable period of experience in industry or in a research organisation will be an advantage. Candidates with knowledge beyond a first-degree level in pyrometallurgy or metallurgical thermodynamics will be considered first.

Candidates are expected to have high level knowledge of the development of metallurgical thermodynamic models and application in chemical and phase equilibria and process simulation as applied to process metallurgy.

Candidates who possess in-depth knowledge of fundamental principles and working knowledge of process metallurgy flowsheet design and industrial operations across various commodities (ferrous and non-ferrous) will be highly considered.

Successful candidates for the position would be encouraged to pursue research and related activities in an area of their choice and/or join one of the existing research groups in the school. A record of previous undergraduate and postgraduate teaching experience, as well as supervision of master's and doctoral students to completion is required. A proven record of research, supported by publications in peer-reviewed journals is also required. Successful candidates will be encouraged to pursue further training in higher education after appointment as a requirement for further promotion. Immediate availability at short notice is desirable.

Duties and responsibilities

The successful candidates will be expected to demonstrate expertise in subjects comprising of Metallurgy and Materials Engineering and the ability to:

- Teach both undergraduate and postgraduate students.
- Facilitate and guide large groups of undergraduate students.
- Engage in continuous development of the programme, adapting it to the everchanging challenges facing the university, industry and society.
- Undertake research in his/her area of expertise in a productive manner, and publish research papers in internationally accredited journals.
- Expand existing and initiate new research programmes, raise and manage funds from national and international funding agencies and industry
- Supervise postgraduate students at master's and doctoral levels for MSc (Eng) and PhD qualifications
- Participate in Faculty/School and University activities such as attending meetings, training workshops, conferences and seminars, among others

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- Undertake assigned school duties of an administrative nature

Enquiries: Further information may be obtained from Professor Geoffrey S. Simate, Head of School (Acting), Chemical and Metallurgical Engineering **Telephone:** +27 11 717 7570; **e-mail:** geoffrey.simate@wits.ac.za

To apply: Submit a covering letter specifying the level that you are applying for, half a page statement of research interests, a detailed CV with names and current e-mail addresses as well as contact numbers of 3 referees, certified copies of relevant degrees/diplomas, academic transcripts and South African ID or passport (if not a South African citizen or permanent resident). External applicants are invited to apply by registering their profiles on the Wits i-recruitment platform located at <https://irec.wits.ac.za>. Internal employees may apply directly on Oracle Self-Service on the Wits Intranet by selecting "Apply for a Job".

Note: Applications that are incomplete and that do not meet job requirements will not be considered.

Please note that given the thrust of the University's strategic plan on transformation, preference may be given to appointable applicants from the under-represented designated groups in terms of the relevant employment equity plans and policies of the University. The University reserves the right to verify all information provided by candidates and to verify credit rating. Please note that correspondence will only be entered into with the shortlisted candidates. The University reserves the right to make an appointment or re-advertise.

EEO/AA Policy

The University is committed to employment equity. Preference may be given to appointable applicants from the under-represented designated groups in terms of the relevant employment equity plans and policies of the University. The University reserves the right to verify all information provided by candidates. Please note that correspondence will only be entered into with short-listed candidates. The University reserves the right not to make an appointment nor to re-advertise.

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Contact Information

Please reference Academickeys in your cover letter when
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Contact Professor Geoffrey Simate
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