



UNIVERSITY OF
ZULULAND

The University of Zululand subscribes to the principles of the Employment Equity Act

FACULTY OF SCIENCE AND AGRICULTURE

DEPARTMENT: PHYSICS AND ENGINEERING (MECHANICAL)

PROFESSOR

GRADE 5

REF: FSA2020/11/03

The University of Zululand currently has a vacant position in the Department of Physics and Engineering (Mechanical), following are the key responsibility areas for the position:

- Administrative impact,
- Teaching and Learning,
- Research outputs
- Community engagement.
- Current completed levels of supervision would also be taken into consideration

The main purpose of this position is to provide strategic and operational management of the Department of Physics and Engineering (Mechanical) as well as implementation of departmental plans. The successful candidate will help the department in organizing, planning and monitoring/evaluating ongoing staff and student competencies within the department. To represent the Department at Faculty and Senate level:

MINIMUM REQUIREMENTS

The University is looking for a **Senior Academic leader** who meets the following:

- PhD in Mechanical Engineering with the following undergraduate qualification: B Sc in Mechanical Engineering and/ or B Engineering (Mechanical).
- Must have at least 10 years or more teaching experience in a higher education environment.
- Sound to advanced theoretical knowledge of the field.

- Supervision and mentoring of postgraduate students and co-publication with students.
- Proven teaching of undergraduate courses and at the honours level.
- Substantial publication of research articles in impact accredited journals.
- Participation in community engagement projects.
- Presentation at conferences, both local and internationally.
- A NRF Rating at the level of Professor would be a distinct advantage.
- Industrial exposure/research.

ADDED ADVANTAGES

- Must have experience with ECSA accreditation.
- Must have led a department at some point in his/her career.

GENERIC REQUIREMENTS

PROFESSOR

- Advanced theoretical knowledge of and insights into the field, with a specialization in Mechanical Engineering.
- Competence in communicating knowledge and facilitating teaching and learning in a lecture, seminar, tutorial and in assessment practices; the ability to engage in curriculum design and development; and a demonstrated ability to conduct high-quality research.
- A thorough understanding of fundamental research methodology and competence in facilitating research tutorials/seminars and practical sessions; and/or undertaking research projects, production of research reports and conducting of tutorials and/or practical sessions.
- A substantial number of conference papers, peer-reviewed publications or other acceptable research outputs.
- Peer-recognition as a specialist in the field and potential to make a substantial contribution to the discipline or field.
- Ability to supervise research at postgraduate level and to develop research capacity.
- An involvement in the wider academic community (e.g., editorships, review requests, participation in professional bodies).
- Capacity and willingness to undertake administrative responsibilities at departmental or institutional levels and to assume leadership positions, either in administration or in academic or professional activity.
- Promotion of and/or active participation in community engagement projects and/or leadership in establishing such projects.
- Sound interpersonal skills, including a commitment to collegiality and equal opportunity. Competence as an Associate Professor, demonstrating that the applicant has been recognized by the academic community for producing sound scholarship in either the teaching or research categories, but preferably in both.
- Ability to teach effectively at different academic levels, commensurate with the nature of the post to which the applicant was previously appointed.
- An interest in and engagement with the theory of teaching and learning, the promotion of/active participation in teaching development programmes and the

capacity to play a role in curriculum design and development; management of academic programmes; recognition for advanced teaching practice and/or evidence of mentoring.

- Ongoing research activity and dissemination of research findings, including a reasonable record of publications in accredited and/or internationally-recognized research journals, commensurate with the applicant's discipline and the nature of the post to which the applicant was previously appointed.
- A substantial record of high quality scholarship and research relative to others in the same field, evidenced by a record of high quality publications in appropriate academic journals.
- Capacity to initiate, manage and supervise research, including research at doctoral and postdoctoral level, to attract research students and/or research projects and funding, and to develop research capacity.
- Professional and academic standing in the field of specialization.
- Ability to assume leadership positions either at departmental or institutional level, including the capacity to represent the Department or the University, and the capacity to lead the department in a dynamic and inspiring way.
- The ability and willingness to encourage the intellectual and career aspirations of staff and students.
- Where appropriate, advanced research skills or capacity in the relevant discipline or field and participation in development programmes. Must have demonstrated strong research and academic leadership (e.g., by serving on university committees, professional and academic associations, acting as head of division or discipline), with competencies to serve as head of research division.
- Service to the University either at departmental or institutional level.
- Ability to take on administrative responsibilities at departmental level.
- Academic and/or professional participation at national and/or international level.
- Community engagement activity.
- A track record of service to the academic and wider community, either by contributing to teaching and learning or as a research leader in a particular discipline or field, nationally and internationally.
- A qualification in, or proof of studying towards, the assessment of learning at NQF Level 7/8, or an equivalent teaching qualification; alternatively, a qualification in postgraduate supervision at NQF Level 7/8, or an equivalent postgraduate supervision qualification.
- A NRF rating at the level of Professor would be preferable

OTHER REQUIREMENTS

Skills

- Teaching skills at University level, especially teaching large classes.
- An ability to design curricula.
- Capability to stimulate and teach research and participation in departmental academic discussions.
- Organizing and Planning Skills.
- Computer literacy.

- Sound administration skills.

Knowledge & Experience

- Knowledge of Higher Education environment, HEQC, SAQA standards, programme accreditation and articulation requirements and processes.

Behaviours

- Professionalism
- Personal learning and development
- Effective communication
- Collaboration / teamwork
- Confidentiality
- Customer or Service Focus
- Inclusivity / diversity
- Time management

Closing date of applications: **29 November 2020**

The University reserves the right not to make an appointment in the position as advertised.

To apply for this position, please log on to Pnet.co.za. If not registered, please register and apply for the appropriate position. Ensure that you complete the questionnaire as per the specific post. **Please note no applications through any other means will be accepted.**

Candidates, who DO NOT MEET the minimum requirements, will not be considered and SHOULD NOT APPLY.

Current permanent academic members of staff should not apply for this position as they are required to apply through the University academic promotion process. If an application from such a candidate is received such application will not be considered and will be discarded.

While the University of Zululand strives for equal opportunities, preference will be given to suitably qualified **South African Citizens, particularly females and people with disabilities**, in terms of the University's employment equity policy. UNIZULU is committed to employment equity and equal opportunity.

If you are not contacted within 2 months of the closing date, please consider your application unsuccessful.

Kindly Note: **Communication will be entered into with shortlisted candidates only.**

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