



DIVISION: ENGINEERING &  
TECHNOLOGY

DEPARTMENT: INDUSTRIAL ENGINEERING  
AND OPERATIONS MANAGEMENT AND  
MECHANICAL ENGINEERING

POST: **PART-TIME**  
**SENIOR LECTURER (Post no. 7409)**  
**LECTURER (Post no. 7330)**  
INDUSTRIAL ENGINEERING,  
OPERATIONS MANAGEMENT AND  
MECHANICAL ENGINEERING

JOB DESCRIPTION:

**Post names or modules Names**

**Diploma in Industrial Engineering**

- Production Engineering 1 (S3)
- OPERATIONAL RESEARCH 3 (S5)

**Diploma in Mechanical Engineering**

- Mechanical Manufacturing Engineering 1 (s3)
- Mechanics 1 (s3)
- Engineering Drawing II (s3)
- Fluid Mechanics 2 (s3)
- Thermodynamics 2(s3)
- Strength of Materials 3 (s5)
- Mechanics of Machines 3 (s5)
- Hydraulic Machines 3 (s5)
- Steam Plant 3 (s5)
- Applied Strength of Materials 3 (s5)
- Theory of Machines 3 (s5)
- Modelling and Engineering Computation 2 (s5)

**Diploma in Operations Management**

- Manufacturing Technology 1.1 (S1)
- Operations Management 1.1 (Industrial) (S1)
- Organisational Effectiveness 1.1 (S1)
- Workplace Dynamics 1.1 (S1)
- Operations Management 2.1 (S3)
- Quality Assurance 2
- Statistics 1.1 (S3)
- Operations Management Technology 3 (s5)

**Advanced Diploma in Industrial Engineering**

- Manufacturing and Production Science (IE) / Manufacturing Systems (OM)
- Quality Control and Improvement

- Research Methods and Industrial Engineering Project

#### **Advanced Diploma in Mechanical Engineering**

- Engineering Economics
- Material Science

#### **Advanced Diploma in Operations Management**

- Research Methodology for Operations Management
- Manufacturing and Production Science (IE) / Manufacturing Systems (OM)
- Quality Management

#### **Postgraduate Diploma in Industrial Engineering**

- Industrial Engineering Project Planning and Design 5 / Operations Management Project Planning and Design 5
- Industrial Engineering Project Design and Implementation 5 / Operations Management Project Design and Implementation 5
- Advanced Modelling and Simulation 5 (IE and Met. Eng)

#### **Postgraduate Diploma in Mechanical Engineering**

- Applied Research Methodology in Mechanical Engineering
- Engineering Modelling and Simulations Module 1
- Internal Combustion Engine Analysis

#### **Postgraduate Diploma in Operations Management**

- Industrial Engineering Project Planning and Design 5 / Operations Management Project Planning and Design 5
- Industrial Engineering Project Design and Implementation 5 / Operations Management Project Design and Implementation 5
- Advanced Modelling in Operations Management 5

#### **The incumbent will be required to: {KPA'S}**

- Academic leadership – Develop and review course materials, teach and assess students at undergraduate/postgraduate levels, prepare teaching and learning portfolio as evidence of compliance to standards, and take part in department management tasks delegated by the HOD and report on achievement in PMC.
- Develop curriculum in applicable field of specialisation or assigned module - influence the development, maintenance, and control of curriculum in field of specialisation or for assigned modules.
- Industry relationship building and external engagement – Liaise with industry including consultation work, project proposals and collaborative research projects.
- Community engagement – Develop community engagement project contents and study guides and take part in the implementation, participate in community flagship programme/projects.

## APPLICATION CRITERIA:

### **Senior Lecturer**

#### **Qualification/Experience:**

- Bachelor (BEng/ BTech/ BScEng), Masters and Doctoral Degrees (MEng/ MTech/ MScEng) in Industrial Engineering or related field of study.

Or

- Dip (Eng), AdvDip (Eng), PGDip (Eng) and Masters and Doctoral Degrees (MEng/ MTech/ MScEng) in Industrial Engineering or related field of study.

- A minimum of three (3) years (after Doctoral level) of relevant lecturing experience in the field in an institute of higher education OR five years of professional industrial experience in Industrial Engineering or related Engineering
- Evidence of successful curriculum development and academic management.
- Evidence of active participation in professional, industry and/or community activities.
- Knowledge and experience of implementing quality assurance requirements
- Professional registration with Engineering Council of South Africa

### **Added Advantage**

- Research outputs and supervision of Master's and PHD students are an added advantage
- Industry or practice experience is a recommendation
- Further appropriate qualification in the field of study, higher education and research training are strongly recommended.

### **Lecturer**

#### **Qualification/Experience:**

- Bachelor (BEng/ BTech/ BScEng) and Masters Degrees (MEng/ MTech/ MScEng) in Industrial Engineering or Mechanical Engineering or related field of study.

Or

- Dip (Eng), AdvDip (Eng), PGDip (Eng) and Masters Degrees (MEng/ MTech/ MScEng) in Industrial Engineering or Mechanical Engineering or or related field of study.

- A minimum of two (2) years (after Masters level) of relevant lecturing experience in the field in an institute of higher education OR five years of professional industrial experience in Industrial Engineering or related Engineering
- Evidence of successful curriculum development and academic management.
- Evidence of active participation in professional, industry and/or community activities.
- Knowledge and experience of implementing quality assurance requirements
- Professional registration with Engineering Council of South Africa

### Added Advantage

- Research outputs and supervision of Master's and PHD students are an added advantage
- Industry or practice experience is a recommendation
- Further appropriate qualification in the field of study, higher education and research training are strongly recommended.

### Skills:

- Excellent communication and presentation skills
- Excellent teaching skills
- Planning and organising skills
- Conceptual skills
- Analytical ability
- Interpersonal skills
- Problem solving skills

Closing date for applications: 22 December 2023

### Applications should include:

1. A fully completed prescribed application form which can be obtained from [www.vut.ac.za](http://www.vut.ac.za) <https://www.vut.ac.za/wp-content/uploads/2023/03/VUT-Application-for-Employment-form-Final-002.pdf>
2. A detailed curriculum vita (explicitly stating experience or knowledge in the above-mentioned fields)
3. Certified copies of all academic records and certificates/degrees
4. Certified copy of ID
5. Current contact information of referees
6. Please email applications to [recruitment2@vut.ac.za](mailto:recruitment2@vut.ac.za) and quote the post reference and post description in the subject line.
7. No manual applications will be accepted. Incomplete applications or applications without the application form and required documents will be disregarded.
8. Only applications made on our application for employment form would be considered.
9. Communication will be entered into with short-listed candidates only. If you don't hear from VUT within 3 months deem your application as unsuccessful.

Enquiries may be directed to:

HR Business Partner: Ms S Mordaunt, Tel 016 950 9453 / email address: [sandram@vut.ac.za](mailto:sandram@vut.ac.za)

**Please Note: Submission of such copies entitles Vaal University of Technology to authenticate the qualifications without any further consent from the applicant. Candidates with foreign**

qualifications must submit a SAQA certificate of evaluation. Vaal University of Technology is an equal opportunity and affirmative action employer, which is committed to the implementation of its employment equity plan. People from designated groups are encouraged to apply. Only shortlisted candidates will be contacted.

VUT reserves the right not to make an appointment

By applying for this position, you give permission to share your information with the selection panel or the relevant people involved in the recruitment process.

