Tshwane University of Technology

We empower people

VACANCY BULLETIN

WORK-INTEGRATED LEARNING (WIL) LAB SUPPORT/LAB ASSISTANT X6
ALL ICT DEPARTMENTS
FACULTY OF ICT
ALL CAMPUSES WITH ICT
DEPARTMENTS Ref: 26/G124

The Faculty of ICT seeks to appoint Work-Integrated Learning (WIL) Lab Support Assistants across all Tshwane University of Technology (TUT) campuses with ICT departments for the period January to December 2027.

The faculty is expanding its research and innovation programmes in Artificial Intelligence, Machine Learning, Computer Vision, Robotics, Embedded Systems, Networking, Cybersecurity, Software Engineering, Drone Technologies, Smart Agriculture, Internet of Things (IoT), Data Science and Digital Twin Systems.

INSTRUCTIONS: Applicants are required to submit, together with the CVs, a fully completed standardized application form available from the university intranet as well as recently certified copies of qualifications and Identity Document. Failure to comply with this instruction will disqualify the candidate. Candidates may be subjected to appropriate psychometric testing and other selection instruments.

Applicants with practical experience gained through:

- 4IR Research Laboratories
- Software Engineering Laboratories
- ICEP Laboratories
- Networking Laboratories
- Embedded Systems Laboratories
- Computer Science Laboratories
- Robotics Laboratories
- AI Research Projects
- Drone Research Laboratories
- Agricultural Digital Technologies
- Independent Software Projects
- GitHub Portfolios
- Published Applications
- Research Projects

Women and people with disabilities are encouraged to apply.

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Key performance areas/Core functions:

1. Digital Twin Developer (1)

Responsibilities

- Develop Digital Twins
- IoT Integration
- Dashboard development
- Real-time simulation
- Predictive analytics

2. Data Science & Analytics Specialist (1)

Responsibilities

- Data cleaning
- Machine Learning
- Dashboard creation
- Statistical analysis
- Predictive modelling

3. GIS & Remote Sensing Specialist (1)

Responsibilities

- Satellite image analysis
- Drone mapping
- Spatial analytics
- Precision agriculture
- Water intelligence

4. Precision Agriculture & Smart Farming Specialist (2)

Responsibilities

- Smart irrigation
- Crop monitoring
- Drone spraying
- Agricultural analytics

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- Sensor deployment
- Yield prediction

5. Research & Innovation Assistant (1)

Responsibilities

- Proposal writing
- Literature review
- Technical documentation
- Data collection
- Laboratory experiments
- Research publications

Minimum requirements:

Academic qualifications:

- Registered for an Advanced Diploma, Postgraduate Diploma, Honours, Master's or Doctoral qualification in an ICT or related discipline.

Experience:

- Have practical laboratory experience.
- 4IR Research Laboratories
- Software Engineering Laboratories
- ICEP Laboratories
- Networking Laboratories
- Embedded Systems Laboratories
- Computer Science Laboratories
- Robotics Laboratories
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Knowledge and Skill:

- Demonstrate strong analytical and problem-solving skills.
- Work independently and in multidisciplinary teams.
- Possess excellent communication skills.
- Be committed to research and innovation.
- Python
- R
- SQL
- Power BI
- Tableau

Preference will be given to applicants with experience in:

- AI
- Machine Learning
- Computer Vision
- Robotics
- Drone Technologies
- Embedded Systems
- Cybersecurity
- Networking
- Data Science
- GIS
- Smart Agriculture
- Digital Twins
- Software Engineering

Registration with a professional body (if applicable):

- N/A

Send CV to : Maunyeg@tut.ac.za

Closing Date : **18 November 2026**

Enquiries : **OwolawiPA@tut.ac.za**

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NB: If we have not responded within a month from the closing date, you should regard your application as unsuccessful. Correspondence will only be entered into with short-listed candidates. **The University reserves the right not to make an appointment.** It is the intention of the University to promote representativity in respect of race, gender and disability through the filling of this post.

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