



DEPARTMENT OF ENGINEERING AND TECHNOLOGY MANAGEMENT

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KEY RESEARCH IMPACT

EBIT's Department of Engineering and Technology Management is housed in the Graduate School of Technology Management (GSTM). Its research ensures relevance to the market in terms of increased international competitiveness, technology transfer and the positioning of technological abilities within the international context.

RESEARCH OPPORTUNITIES

- Technology and innovation management
- Project management
- Engineering management
- Energy systems analysis

RESEARCH PRIDE

Research chairs and entities

- Rand Water Chair: Business management

South African National Research Foundation (NRF)-rated researchers

- Prof L Pretorius (C1 NRF-rating)
- Prof MW Pretorius (C2 NRF-rating)
- Prof JE Amadi-Echendu (C2 NRF-rating)
- Prof H Chikwanda (C2 NRF-rating)
- Prof H Steyn (C3 NRF-rating)
- Prof DR Walwyn (C3 NRF-rating)
- Dr GA Thopil (Y2 NRF-rating)

Accolades for postgraduate academic programmes

The GSTM is unique in that it houses the Faculty's postgraduate academic department. The Department facilitates internationally recognised development programmes for postgraduate students. These programmes address different needs in the fields of technology and innovation management, project management, engineering management and asset management. It offers the only Master's Programme in Project Management in Africa to be accredited by the Global Accreditation Centre for Project Management Education Programs (GAC) of the Project Management Institute (PMI), USA.

Join the University of Pretoria's Faculty of Engineering, Built Environment and Information Technology and join a world-class research institution.



CAREER PATHWAYS

Engineering, technology and innovation management is a globally evolving discipline. The increasing complexity of engineering systems and activities, the scope and sophistication of resources, as well as advances in technology have all been driving forces in the evolution of this new field. A postgraduate degree from the Department allows its graduates to address different needs in the fields of technology and innovation management, project management and engineering management.

POSTGRADUATE DEGREE PROGRAMMES

Honours programme

BEng Hons Engineering and Technology Management ■ BSc Hons Engineering and Technology Management

The programme is aimed at engineers and scientists who have recently completed a bachelors degree. The objective is to produce graduates who not only have technological capabilities, but also the ability to manage technology – specialists who not only know how to develop and deploy technology, but also why.

Master's programmes

MEng Engineering Management (Coursework) ■ MSc Engineering Management (Coursework)

The purpose of the Master's in Engineering Management (MEM) is to provide relevant management education to the practising engineer who is active in primarily technology-based enterprises. The MEM is aimed at the engineer pursuing a career in general management or functional management.

MEng Project Management (Coursework) ■ MSc Project Management (Coursework)

The purpose of the Master's in Project Management (MPM) is to provide relevant, high-level project management education for the practising engineer and scientist pursuing a career in project management in primarily technology-based enterprises.

MEng Technology and Innovation Management (Coursework) ■ MSc Technology and Innovation Management (Coursework)

The Master's in Technology and Innovation Management (MTIM) provides knowledge on how to identify technology transfer and absorption processes, manage these processes, support firm-level innovation with in-house research and development, engage on open or inclusive innovation, use Big Data to support innovation processes and maximise the acquisition of new technology within the normal constraints of financial and human resources.

Doctoral programmes

PhD Engineering Management

The Engineering Management Research Group focuses on the areas of systems engineering, innovation and risk management, systems thinking and energy studies, energy technologies, impact assessment and environmental policy, technology management, maintenance management, and engineering asset management.

PhD Project Management

The Project Management Research Group focuses on the areas of project communication and procurement management, project portfolio, stakeholders, knowledge and scope management, project governance, methodologies and sustainability, and project knowledge management.

PhD Technology and Innovation Management

The Technology and Innovation Management Research Group focuses on the areas of technology and knowledge management, innovation management, technological entrepreneurship and commercialisation, technology and innovation strategy and future studies, and science, technology and innovation policy. The main aim is to improve organisational performance through the integration of the different research areas.

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Faculty of Engineering,
Built Environment and
Information Technology

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Inligtingtegnologie / Lefapha la Boetšenere,
Tikologo ya Kago le Theknolotši ya Tshedimošo

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