

Your unique opportunity to Dream, Innovate & Inspire a brighter future!

“Imagine your life as a valuable role-player in the circular economy, whether you make materials more environmentally friendly, design and develop new eco-friendly products or use ground-breaking sustainable solutions as an entrepreneur in your own plastics manufacturing business. Economic models are shifting focus in order to enable a sustainable way of producing goods and services. Limiting the consumption of resources; from raw materials, to water and energy, as well as limiting the production of waste, are all part of new business models required to shape a sustainable future.”

Who knows, you may just be the next 'Elon Musk' of the Plastics Industry.

Everywhere you look, you will see plastic products all around us in our daily lives. There's the cover and the case that protects your smart phone, the computer casing and keyboard, clothes, children's toys, packaging, appliances, and components for automobiles, the airbus A350 consists of 52% polymer composite material, these are just a few of many examples. Did you know that the world produces over 300 million tons of plastic products annually, and the market is continually growing at 5% per annum?

Plastic Materials are popular because they provide an affordable alternative to traditional materials like steel and wood, they are easy to manufacture, more aesthetically pleasing and designed to your specific requirements. Since we encounter plastics every day of our lives, we however take them for granted, plastic materials are unique, cool and ever evolving. New environmentally conscious materials are developing all the time!

This programme is in the process of being accredited by the Engineering Council of South Africa, that will enable graduates to register as Candidate Engineering Technologists and after the required industry exposure, enabling application to register as Professional Engineering Technologists (Pr. Eng.Tech.).

The qualification is designed to offer a solid foundation for entry into the plastics industry and also for further study in the field, up to PhD level. The course material covers fundamental concepts of polymer material science, engineering and processing as well as related fields. It also introduces students to sustainable design, and new technologies in the field of plastic materials.

For more details about the course click here: https://www.tut.ac.za/ProspectusDocuments/2020/BEng_MaterialsEngPolTech_2020.pdf



MAKE



USE



RECYCLE



**Tshwane University
of Technology**

We empower people

Department of Chemical, Metallurgical and Materials Engineering
Faculty of Engineering and the Built Environment

BACHELOR OF ENGINEERING TECHNOLOGY IN MATERIALS ENGINEERING IN POLYMER TECHNOLOGY

Admission requirements: Bachelor of Engineering Technology in Materials Engineering in Polymer Technology

Minimum APS	Compulsory subjects	Recommended subject
28 (excluding Life Orientation)	English (home or first additional language) 4 Mathematics/Technical Mathematics 5 Physical Sciences/Technical Sciences 5	Engineering Graphics and Designs

Minimum duration: Three years

Job Opportunities: Polymer technologist, technician, production manager, entrepreneur and consultant

Presentation and campus: Day classes, Pretoria Campus

Intake for the qualification: January only

Approximate first year class fees: Available on request.

Possible further studies:

- Master of Engineering in Polymer Technology
- Doctor of Engineering

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