

SCHOOL OF ENGINEERING

Howard College Campus | Durban

Advance Your Career Through **POSTGRADUATE STUDIES** in Engineering, Architecture and Land Surveying

Research-led • ECSA/SACAP/SAGC-accredited
• Full-time & Part-time • Industry-relevant



WHY THE UKZN SCHOOL OF ENGINEERING?

- Africa's leading research-intensive university
- Research addressing real African development challenges
- International supervisory networks & collaborations
- Active postgraduate community
- Full-time and part-time study options available
- Advanced laboratories and research facilities
- NRF, industry bursaries and funding opportunities
- Supervisors with national and international recognition

POSTGRADUATE PROGRAMMES OFFERED

PROGRAMME	NQF	CREDITS	MODE
Bachelor of Architecture Honours (BARC-H)	8	144	FT / PT
Master of Architecture — Coursework (MARCP)	9	192	FT / PT
Master of Architecture — Research (MARCT)	9	192	FT / PT
Master of Science in Engineering (MScEng)	9	192	FT / PT
Master of Science in Land Surveying (MSc-LS)	9	192	FT / PT
Doctor of Philosophy — Engineering (PhD)	10	384	FT / PT

ENGINEERING DISCIPLINES & SPECIALISATIONS

The MScEng is offered across the following engineering disciplines:

- *Agricultural Engineering (Pietermaritzburg Campus)*
- *Chemical Engineering*
- *Civil Engineering*
- *Computer Engineering*
- *Electrical Engineering*
- *Electronic Engineering*
- *Environmental Engineering*
- *Mechanical Engineering*
- *Mechatronic Engineering*

The PhD is offered across the following engineering disciplines:

- *Agricultural Engineering (Pietermaritzburg Campus)*
- *Architecture*
- *Chemical Engineering*
- *Civil Engineering*
- *Computer Engineering*
- *Construction Management*
- *Electrical Engineering*
- *Electronic Engineering*
- *Environmental Engineering*
- *Land Surveying*
- *Mechanical Engineering*

RESEARCH CHAIRS & CENTRES OF EXCELLENCE

The School of Engineering hosts two prestigious South African Research Chairs Initiative (SARChI) chairs, funded jointly by the Department of Science and Innovation (DSI) and the National Research Foundation (NRF), alongside thirteen specialised research groups and centres covering the full breadth of engineering disciplines.

SARChI RESEARCH CHAIRS — DSI/NRF Funded

SARChI Chair: Sugarcane Biorefining	SARChI Chair: Waste & Climate Change
Discipline: Chemical Engineering	Discipline: Civil Engineering
Focus: Bio-based chemicals and fuels from sugarcane biomass; sustainable biorefinery processes relevant to the Southern African sugar industry.	Focus: Sustainable waste management strategies, greenhouse gas reduction, and climate-resilient infrastructure in the African context.

RESEARCH GROUPS & SPECIALISED CENTRES

Research Group / Centre	Focus Area	Discipline
Aerospace Systems Research Institute (ASRI)	Aerospace technology, UAVs, propulsion, aerostructures	Mechanical Engineering
WASH R&D Centre	Water, sanitation & hygiene engineering for developing communities	Chemical / Civil / Environmental Eng.
Sustainable Transportation Research Group (STRg)	Sustainable roads, transport systems, smart transportation, resilient infrastructure	Civil / Comp / Mech Engineering
Mechatronics & Robotics Research Group (MR2G)	Intelligent robotics, automation, human-robot interaction	Mechanical / Computer Eng.
Energy, Food & Water Engineering (EFWE)	Integrated resource engineering for food-energy-water nexus	Agricultural / Mechanical Eng.

RESEARCH GROUPS & SPECIALISED CENTRES cont.

Research Group / Centre	Focus Area	Discipline
Centre for Power and Energy Systems	Energy Storage, Microgrids, HVAC & HVAC and Superconductor Systems	Electrical / Electronic / Computer and Mechanical Eng.
Thermodynamics Research Unit	Applied thermodynamics, heat transfer, energy systems	Chemical Engineering
Particle Technology Group	Particle processing, multiphase flow, mineral engineering	Chemical Engineering
Environmental Fluid Mechanics Lab	Fluid dynamics in environmental and industrial systems	Civil / Chemical Eng.
Structural Engineering & Computational Mechanics	Structural analysis, advanced computational methods, FEA	Civil Engineering
Stopforth Mechatronics, Robotics & Research Lab	Applied robotics, prosthetics, emerging tech prototyping	Mechanical Engineering
Science & Technology Innovation Park (STIP)	Technology transfer, industry partnerships, entrepreneurship	Cross-disciplinary
Centre for Academic Success in Science & Eng. (CASSE)	Academic development and foundation support for engineers	Cross-disciplinary
Centre of Excellence Radio Access & Rural Technologies (CoE)	Wireless communication and Image processing	Electronic and Computer Engineering

ENTRANCE REQUIREMENTS AT A GLANCE

Qualification	Minimum Entry Requirement
BArch Hons (NQF 8)	NQF 7 Architecture degree with ≥60% overall and ≥60% in Architectural Design & Theory at exit level. Satisfactory Design Portfolio required. Applicants with 50–60% must have ≥2 years of relevant architectural work experience.
MArch Coursework & Research (NQF 9)	Postgraduate qualification in Architecture at NQF 8. Concept note on the proposed research topic required at the time of application.
MScEng by Research (NQF 9)	Appropriate BScEng or equivalent NQF 8 degree in the relevant engineering discipline. Senate may consider equivalent competence under GR7(b).
MSc Land Surveying (NQF 9)	Appropriate NQF 8 degree in Land Surveying or a cognate field as specified by the discipline.
Doctor of Philosophy (NQF 10)	Master's degree at NQF 9 in a cognate field. Demonstrated research potential required. Statement of proposed research topic submitted for CAAB approval before registration.

KEY STUDY & REGISTRATION INFORMATION

Minimum Study Periods

- Honours: 2 semesters (full-time)
- Master's (Coursework & Research): 2 consecutive semesters
- Doctoral: 4 consecutive semesters

Awards with Distinction (Master's)

- *Cum Laude*: $\geq 75\%$ weighted average, within min. time + 2 sem (FT)
- *Summa Cum Laude*: $\geq 80\%$ weighted average, within minimum time (FT)

Maximum Time Limits

- Master's: Re-registration required after 4 sem FT / 6 sem PT
- PhD: Re-registration required after 8 sem FT / 10 sem PT
- Suspended periods excluded from all time calculations

Doctoral Publication Requirement

- At least one published or submitted peer-reviewed journal article arising from the doctoral research must accompany thesis submission
- Waived if thesis is presented in paper-based format

HOW TO APPLY

Application Steps

- Visit <https://erpweb.ukzn.ac.za/pls/ukznint/gen.gw1pkg.gw1view>
- Create a student profile and complete the online form
- Upload certified transcripts and degree certificates
- Architecture applicants: include a Design Portfolio
- Await an offer letter and accept within the stipulated period
- Submit a research proposal (research degrees)

Application Windows

- Semester 1 (February intake): June – October of prior year
- Semester 2 (July intake): November – March of same year

For Working Professionals

- Part-time registration available across most programmes
- Flexible supervisory arrangements to suit work schedules
- SAQA-recognised and Recognition of Prior Learning (RPL) are considered

Ready to begin your postgraduate journey?

Contact the School of Engineering — Postgraduate Office

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