



Nelson Mandela University Research Entities 2022

Website: <https://research.mandela.ac.za/research-entities>

The Nelson Mandela University Research Entities are flagship structures that position and brand the University's research activities nationally and globally. They are key drivers of the university's vision and strategy, with their activities spanning and integrating the core University missions. They are critical in the University's pursuit impactful research, innovation and internationalisation to promote sustainable futures.

The key positioning messages of the University find expression in the institutional Vision 2030 and include firmly establishing the institution as a University that advances social justice in the service of society; repositioning and changing the face of engagement to respond to the key challenges of our time and space; revitalisation of the Humanities; being deliberate about pursuing transdisciplinary perspectives in our scholarly endeavours; expanding our African footprint; and growing and nurturing our institutional research themes as well as continuing to strengthen the University research outputs.

Nelson Mandela University Research Themes that are anchored by the work of the research entities are:

- Ocean and Coastal Sciences
- Social Justice and Democracy
- Environmental Stewardship and Sustainable Livelihoods
- Innovation and the Digital Economy
- Origins, Culture, Heritage and Memory
- Humanising Pedagogies

The University boasts 22 research entities which are divided into institutes (4), centres (12) and units (6). Working with academic departments, research chairs and faculties, the entities contribute significantly to the areas of postgraduate training, mentoring of postdoctoral and research fellows, research and engagement.

**Table 1. Summary of Nelson Mandela University Research entities**

<b>Entity</b>	<b>Director</b>	<b>Focus areas</b>	<b>Website</b>
Africa Earth Observatory Network-Earth Stewardship Research Institute	Prof. Moctar Doucouré	Transdisciplinary research; Earth stewardship, Geology; Geoscience	<a href="http://aeon.org.za/">http://aeon.org.za/</a>
Institute for Coastal and Marine Research	Prof. Lorien Pichegru	Transdisciplinary research; Global change; Living resources and Food security; Biodiversity, Conservation & Management	<a href="https://cmr.mandela.ac.za/">https://cmr.mandela.ac.za/</a>
Institute for Chemical Technology and Downstream Chemical Technology Station	Dr Gary Dugmore	Technology support services; Technology Developments; Basic research	<a href="https://innoventondcts.mandela.ac.za/">https://innoventondcts.mandela.ac.za/</a>
Centre for Advancement of Non-Racialism and Democracy	Mr Allan Zinn	Democracy; Non-racialism; Social justice; Dialogue	<a href="https://canrad.mandela.ac.za/">https://canrad.mandela.ac.za/</a>
Built Environment Research Centre	Mr Chris Allen	Sustainable Built Environment; Smart and Green Buildings; Human Settelements	<a href="https://qs.mandela.ac.za/Research">https://qs.mandela.ac.za/Research</a>
Centre for Community Technologies	Prof. Darelle van Greunen	ICT for Health; ICT for Education; Policy advice	<a href="https://cct.mandela.ac.za/">https://cct.mandela.ac.za/</a>
Centre for Research in Information and Cyber Security	Prof. Rheinhardt Botha	Cyber-security; Cyber-citizenship; Banking safety	<a href="https://crics.mandela.ac.za/">https://crics.mandela.ac.za/</a>
Centre for African Conservation Ecology	Prof. Graham Kerley	Ecological and Conservation Biology; Global Change; Restoration Ecology	<a href="https://ace.mandela.ac.za/">https://ace.mandela.ac.za/</a>
Centre for High Resolution Transmission Electronic Microscopy	Prof. Jan Neethling	Materials modelling; Energy materials; Nanoparticle catalysis; Minerals beneficiation; Biological and Biomedical microscopy	<a href="https://chrtem.mandela.ac.za/">https://chrtem.mandela.ac.za/</a>

Centre of Expertise in Forecasting	Prof. Igor Litvine	Forecasting; Modelling; Statistics	<a href="https://coef.mandela.ac.za/">https://coef.mandela.ac.za/</a>
Centre for Rubber Science and Technology	Prof. Percy Hlangothi	Polymer chemistry; Environmental science; Rubber Science	<a href="https://crst.mandela.ac.za/">https://crst.mandela.ac.za/</a>
Telkom Centre of Excellence	Prof. Janet Wesson	Smart applications and Services; Optical fibre research; Photovoltaic research	<a href="https://coe.mandela.ac.za/">https://coe.mandela.ac.za/</a>
African Centre for Coastal Palaeoscience	Dr Jan de Vynck	Quaternary palaeoscience; Cape Floristic Region; Global change; Palaeo-seascapes	<a href="https://accp.mandela.ac.za/">https://accp.mandela.ac.za/</a>
Centre for Broadband Communication	Prof. Tim Gibbon	Optical fibre research; Broadband Optimal Communication; Next Generation DWDM System; Square Kilometer Array	<a href="https://broadband.mandela.ac.za/">https://broadband.mandela.ac.za/</a>
Centre for Philosophy in Africa	Dr Sam Nzioki	Africa-purposed philosophy; Decolonisation	<a href="https://philosophy.mandela.ac.za/">https://philosophy.mandela.ac.za/</a>
Centre for Women and Gender Studies	Dr Babalwa Magoqwana	Women empowerment; Gender transformation; African Feminist Imaginations	<a href="https://cwgs.mandela.ac.za/">https://cwgs.mandela.ac.za/</a>
Raymond Mhlaba Centre for Leadership and Governance	Prof. Luvuyo Ntombana	Raymond Mhlaba legacy; Capacity building at local government; Governance and public policy	
Sustainability Research Unit	Prof. Herve Fritz	Sustainability science; Socio-ecological systems resilience; Long term-ecological monitoring	<a href="https://sru.mandela.ac.za/">https://sru.mandela.ac.za/</a>
Unit for Visual Methodologies for Social Change	Prof Naydene de Lange	Data archives; Participatory methodologies;	<a href="http://rce.mandela.ac.za/">http://rce.mandela.ac.za/</a>
Drug Utilisation Research Unit	Prof. Ilse Truter	Management of medicines; Cost effective use of health care resources	<a href="https://pharmacy.mandela.ac.za/Drug-Utilization-Research-Unit">https://pharmacy.mandela.ac.za/Drug-Utilization-Research-Unit</a>

Family Business Unit	Prof. Elmarie Venter	Theory and practice of management of family business units	<a href="https://fbu.mandela.ac.za/">https://fbu.mandela.ac.za/</a>
Unit for Positive Organisations	Prof. Michelle Mey	Industrial psychology; Human Resource management; Ethics and integrity	
Unit for Economic Development and Tourism	Prof. Ronney Ncwadi	Sustainable local economic development; Tourism	