



NSTF-South32 Awards 2023-2024

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Honouring SA's leading innovators in science. engineering and technology

THE National Science and Technology Forum (NSTF) held its prestigious annual NSTF-South32 Awards to honour and recognise outstanding South African contributions to the world of science, engineering

contributions to the world of science, engineering and technology (SET).

South Africa's first science awards and dubbed the "Science Ocasa"; the NSTF's Authra's Amarisa states the largest SET and innovation awards in the countries to be a second or south Africa's the science of the NSTF it is a celebration of South African ingenuity and excellence through this flagship project of the NSTF The gale evening took place or Thursday, July 11 and was live-streamed from Johannesburg and Cape Town.

The NSTF Awards was established in 1989 as a collaborative fort or recognise teams, organisations

The NSTF Awards was established in 1998 as a collaborative effort to recognise teams, organisation and individuals who have made exceptional efforts in their fields. Outstanding contributions to SET and innovation were awarded and celebrated in the following broad areas, under 15 categories:

- Scientific research
- Innovation and development
- Management and related activities
- Capacity development in engineering research
- Environmental sustainability and biodiversity conservation
- Science diplomerer.

- nservation
 Science diplomacy
 Medical research
 Water research and innovation

The challenges faced by the world are profound.

The threats of unprecedented outbreaks, natural disasters, climate change, drought, energy and food



insecurity and so on remain priorities demanding the world's attention and the need to work collaborative) and in partnership," said Prof Jeffrey Mphahlele, NSTF chairperson.

"Collectively, we are making progress. Science is at the heart of providing solutions to these myriad challenges. Amid these complexities, the NSTF continues to evolve and remain relevant. It always strives to be a moderate force that participates in public engagements and discourses with a view of shaping and influencing public policies for the benefit of society. "The call is loud and clear – we need to build a society that looks into the future."

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The NSTF is the most representative multi-stakeholder non-profit forum promoting SET and inmovation. It showcases the research and development capacity of South Africa.

The excellent output of the winners supports South Africa's advancement, economic growth and the social upliffment of our people.

2023/2024 WINNERS

- Lifetime Award
 Prof Ben-Erik van Wyk, UJ
 TW Kambule-NSTF Award: Researcher
 Prof Patiene Mthunzi-Kufa, UNISA
 TW Kambule-NSTF Award: Emerging

- TW Kambule-NSTF Award: Emerging Researcher Dr Tilsetso E Lephoto, Wits Prof Tebogo Mashifana, UJ Management Award Prof Bernard Slippers, UP Engineering Research Capacity Development Award, Wits Prof Emmanuel Iwunba, UWC NSTF-Water Research Commission (WRC) Award Prof Timothy Dube, UWC NSTF-SAMRC Clinician-Scientist Award Dr June Fabian, Wits

- Dr June Fabian, Wits
 NSTF-TIA Green Economy Award
 Prof Linda Godfrey, NWU
 NSTF-SDCfA Science Diplomacy for

- Strict Science Diplomacy for Africa Award
 Prof Irvy (Igle) Gledhill, Wis
 Data for Research Award
 LLwazi Node, SAEON Open Data Platform,
 NRF
 Innovation Award: Corporate • Innovation Award: Corporate Organisation
- ar Medicine Research Infrastructure
- NPC (NuMeRi)
 NSTF-NIPMO Innovation Award: Small,

- NSTF-NIPMO Innovation Award: Small, Medium and Micro Enterprise Jonker Sailplanes
 Jonmer Sailplanes
 Communication Award
 Prof Jennifer Fitchett, Wits
 Non-Governmental Organisation Award
 OLICO Maths Education
 Special Annual Theme Award 4IR in SA
 Inter-University Institute for Data Intensive
 Astronomy (Jin)
 Astrono

DUT - Your gateway to a brighter future

LOOKING to shape a brighter future? Look no further than the Durban University of Technology (DUT), a globally recognised institution that same at the forefront of higher education, remological training. The company of the company

and innovation. For those considering their preferred university for 2025, DUT is the perfect choice. Situated in KwaZulu-Natal, DUT boasts seven strategically located campuses in Durban and Pietermaritzburg. The university offers six faculties covering a diverse pages. university offers six faculties covering a diverse range of disciplines, including Accounting and Informatics, Applied Sciences, Management Sciences, Engineering and the Built Environment, Health Sciences, and Arts and Design. With 30 diverse research focus out the second of the at addressing real-world challenses.

DUI's success extends beyond academic achievements, emphasising holistic development and entrepreneurship. The Faculty of Management Sciences hosts

the DUT Business School, which focuses on applied business practices, equipping future leaders with the skills to drive

essence is the ENVISION2009 strategy instituted in 2020. This framework, deeply rooted in core values of transparency honesty, integrity, respect and accountability along with the principles of fairness, professional Isin, commitment, compassion and excellence, forms the foundation of the institution. The university's institution. The university's tagline – "CREATIVE. DISTINCTIVE, IMPACTFUL." promises students not just an education, but a holistic experience. Those propelled by a quest for knowledge, a thirst for technological training or an entrepreneural spirit will find DUT an unmatched pedestal. It is no tjust an eaademic establishment, it's a communitation of the committee of t establishment, it's a communit committed to innovation, entrepreneurship – and above all, shaping individuals ready t leave an indelible mark on the world.

For those with an entrepreneurial spirit, DUT offers the innobiz DUT Centre

for Entrepreneurship and Innovation. This centre provides both practical and theoretical entrepreneurial learning opportunities aimed at producing innovative, problem-solving entrepreneurs ready to make a positive impact on society.

society.

Make DUT your preferred
university of choice and Society:
Make DUT your preferred
university of choice and
embark on a transformative
educational journey that
nurtures your potential and
prepares you to make a positive
impact on the world. Dare to
dream big and choose DUT
as your academic home for
a future full of possibilities.
With undergraduate and
postgraduate applications
currently open, aspiring
scholars have a wide array of
programmes to choose from,
tailored to their passions and
career goals.

cancreu to their passions and career goals. For comprehensive information on DUT's programme offerings, admission requirements and application procedures, visit www.dut.ac.za

DUT ENVISION2030... CREATIVE. DISTINCTIVE. IMPACTFUL.

UWC research team soars high

RECOGNISING. CELEBRATING AND REWARDING **EXCELLENCE IN SCIENCE, ENGINEERING, TECHNOLOGY** (SET) AND INNOVATION IN SOUTH AFRICA!

DUT congratulates all the winners of the 2023/2024 NSTF-South32 Awards, as well as the three DUT researchers who were finalists: Dr Emmanuel Kweinor Tetteh, Professor Ajay Mishra, and Professor Saheed Sabiu.







From left to right: Professor Saheed Sabiu, Professor Ajay Mishra, Dr Emmanuel Kweinor Tetteh

Dr Emmanuel Kweinor Tetteh, a Research Fellow and Principal Investigator with the Green Engineering Research Group (GERG); Professor Ajay Mishra, a Professor in the Department of Chemistry; and Professor Saheed Sabiu, an Associate Professor in the Department of Biotechnology and Food Science, were recognised amongst other individuals or organisations for their outstanding contributions to science, engineering, technology (SET), and innovation across 14 different categories

Dr Tetteh and Professor Sabiu were nominated in the TW Kambule-NSTF Award: Emerging Researche category, which honours individuals for up to six years of research work in South Africa. Meanwhile, Professor Mishra was nominated in the NSTF-Water Research Commission Award category, which recognises leadership and impact in sustainable water management over the last five to 10 years.

Professor Sabiu, who leads the Computational and Systems Biology Research Group, focuses on bioprospecting for therapeutic targets against degenerative and microbial diseases. He expressed elation and humility upon being named a finalist, emphasising the importance of such awards in

In 2023, **Professor Sabiu** had already received accolades at the DUT ENVISION2030 Institutional Awards, including Faculty Researcher of the Year (Gold) and Emerging Researcher of the Year

Professor Mishra described the NSTF Awards as pivotal in representing scientific achievement with pride, while **Dr Tetteh** credited his nomination to his significant contributions in SET and innovation in South Africa, underscoring the recognition of his hard work and dedication.

ENVISION 2030 transparency • honesty • integrity • respect • accountability fairness • professionalism • commitment • compassion • excellence CREATIVE. DISTINCTIVE. IMPACTFUL.





The Deputy Vice-Chancellor. Research, Innovation, and Engagement at DUT, Professor Fulufhelo Nemavhola, extends congratulations to the finalists, highlighting their exceptional contributions and the university's commitment to impactful

research and innovation

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THE University of Western Cape (UWC) is delighted to extend its heartfelt congratulations to its team of researchers for achieving

remarkable success at the 26th annual NSTF-South32 Awards. "The prestigious recognition of two individual awards and one group award underscores the exceptional Le presagious recognition of two individual awards and one group award underscores the exceptional contributions of the University of the Western Capé's research community. Special accolades go to Professor Timothy Dube, director of the Institute for Water Studies, and Professor Emmanuel twoba, SARCh chair for nanoelectrochemistry and sensor technology for their outstanding accomplishments. Your innovative research not only advances scientific knowledge, but also plays a pivotal role in addressing critical global challenges. Said Professor José Frantz, vice-chancellor: research & Innovation. Known as South Africa's "Science Oscars", the awards are the largest.

most comprehensive and coveted national recognition in the field. They honour outstanding contributions honour outstanding contributions to science, engineering, technology (SET) and innovation by individuals, teams and organisations across South Africa. The categories span a diverse range, including experienced scientists, engineers, clinician scientists, innovators, science communicators, science communicators. innovators, science communicators, engineering capacity developers, research managers and data curators. Now the awards have been expanded to include science diplomacy.

The "Science Oscars" winners from UWC are:
- Prof Timothy Dube, director of the Institute for Water Studies, who

was honoured with the NSTF-Water Research Commission Award for his pioneering and innovative methods using satellite technology merged with machine learning (AD to monitor water resources in semi-arid regions. His work significantly enhances ecological sustainability and community

resilience.

• Prof Emmanuel Iwuoha, SARChI Prof Emmanuel Iwuoha, SARChi
chair for nanoelectrochemistry and
sensor technology, who neceived
the Engineering Research Capacity
Development Award for his ground
beelopment Award for his ground
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control of the sense diagnostic
supercapacitors and solar cell
technology. His leadership at UWC's
Sensori ab has fostered significant
advancements in these critical areas.

Inter-University Institute for
Data Intensive Astronomy (DIDA), a
collaborative effort between UWC, to
University of Cape Town (UCT) and
the University of Pretoria (UP), won
the Special Annual Theme Award
for their cutting-edge infrastructure
and management, facilitating global
collaboration in astronomy This
initiative empowers researchers
initiative empowers researchers

control and mission only Tims initiative empowers researchers to analyse complex SET data with unprecedented efficiency.

"Your dedication to excellence and inmovation is a testament to how UWC is making research count in meaningful ways. Congratulations once again to all the nominees, away winners and the UWC community. winners and the UWC community. Your achievements inspire us all and demonstrate the profound impact that dedicated research and innovation can have on our society and our planet."



UWC's Science Oscar Winners



Prof. Timothy Dube. Director of the Institute for Prof. Timothy Dube, Director of the Institute for Water Studies, who was honoured with the NSTF-Water Research Commission Award for his pioneering and innovative methods using satellite technology merged with machine learning (Al) to monitor water resources in semi-arid regions. His work significantly enhances ecological sustainability and community resilience.



Prof. Emmanuel Iwuoha, SARChI Chair for NanoElectrochemistry and Sensor Technology, who received the Engineering Research Capacity Development Award for his ground-breaking research on disease diagnostic sensor devices, itihitumi-on battery/super-apacitors, and solar cell technology. His leadership at UWC's SensorLab has fostered significant advancements in these critical areas.



Inter-University Institute for Data Intensive Astronomy (IDIA), a collaborative effort between UWC, the University of Cape Town (UCI), and the University of Pretoria (UP), won the Special Annual Theme Award for their cutting-edge and management, facilitating global collaboration in nititee empowers researchers to analyse complex SET addented efficiency.

Become a winner and apply for postgraduate study at www.uwc.ac.za