National Science and Technology Forum SOUTH32

NSTF-South32 Awards
Today's research ... tomorrow's innovation

Nominees announced: 2019/2020 NSTF-South32 Awards

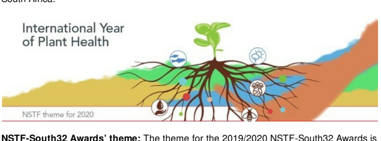
Recognising excellence and outstanding contributions to science, engineering and technology (SET) and innovation in South Africa
#NSTFawards2020

The National Science and Technology Forum (NSTF) is pleased to announce the group of nominees contending for the 22nd prestigious NSTF-South32 Awards.

The NSTF-South32 Awards: The NSTF Awards were established in 1998 as a collaborative effort to recognise outstanding contributions to science, engineering and technology (SET) and innovation by SET-related professionals and organisations in South Africa. This includes experienced scientists, engineers, innovators, science communicators, engineering capacity builders, and organisational managers/leaders, as well as data and research managers.

Our partner: South32 is a mining company that de-merged from BHP Billiton in 2016. It took over the co-branding sponsorship agreement for the annual NSTF Awards.

The 'Science Oscars': The NSTF-South32 Awards are referred to as the 'Science Oscars' of South Africa. They are the largest, most comprehensive, and sought-after national awards of their kind in the country. They were also the first science awards in South Africa.



NSTF-South32 Awards' theme: The theme for the 2019/2020 NSTF-South32 Awards is **Plant Health.** This is in recognition of the 2020 International Year of Plant Health as declared by the United Nations (UN). The 22nd annual Awards function (which will be in an online format this year) will celebrate this theme – the date to be confirmed (depending on progress made with stemming the COVID-19 pandemic).

What's new this year?

There were no major changes to categories and criteria this year. However, please note the following:
1. **Theme Award:** The 2020 Special Annual Theme Award will be made for research and development (R&D) and innovation in Plant Health. This is in recognition of the UN celebration of the '2020 International Year of Plant Health'.
2. **Communication Award:** This award now also considers nominations for professional science communicators working in the field.
3. **New partners:** The NSTF continues with two new category partners. The Lewis Foundation as the sponsor for the Green Economy Award, and the National Intellectual Property Management Office (NIPMO) as the sponsor for the Small, Medium and Micro Enterprises (SMME) Award under the Innovation Awards. The NIPMO sponsorship includes prize money for the Innovation Award: SMME winner.

25 years of serving the science, engineering, technology (SET) and innovation community in SA: This year is the 25th anniversary of the NSTF as an organisation. We are looking back with pride at NSTF's achievements that were brought about by the individuals who have been involved with enthusiasm and passion, and the 113 member organisations to date - 39 (35%) of which have been members since the beginning in 1995. The virtual Awards function will highlight this special occasion.

The NSTF's vision

A transformed country where SET and innovation contribute to a high quality of life for all who live in South Africa, where the profile of SET professionals is representative of the nation's diverse population and where the education system is effective, particularly in terms of performance in SET subjects and the promotion of innovation.

Realising the vision: The NSTF-South32 Awards is the NSTF's flagship event and one among other strategic activities through which the NSTF realises this vision. Partnerships for specific awards (such as with the Water Research Commission, Lewis Foundation, NIPMO and Eskom) recognise contributions that have the potential to make a positive impact on South Africa, and on the world.

2019/2020 NSTF-South32 Awards nominees

Join the NSTF membership and pioneering partners/sponsors in applauding the 2019/2020 NSTF-South32 Awards nominees. These are individuals, teams and organisations, who have made an **outstanding contribution to SET and innovation in South Africa** under the categories below:

- *The phrases in italics at the end of the citation of the nominee indicates that a nominee has been nominated under more than one category and mentions the applicable category/ies*
- *Listed alphabetically according to surname of nominee or name of team/organisation under each category*

1. Lifetime Award
- **Prof William J Bond** – Professor Emeritus: Department (Dept) of Biological Sciences, University of Cape Town (UCT); and Honorary Fellow: SA Environmental Observation Network
- **Prof Faizal Bux** – Director and Professor: Institute for Water and Wastewater Technology, Durban University of Technology (DUT); Dept of Science and Innovation (DSI)/ National Research Foundation (NRF) South African Research Chair (SARChI): Wastewater Treatment, DUT; *and also in the NSTF-Water Research Commission (WRC) category*
- **Prof Donald Cowan** – Director: Centre for Microbial Ecology and Genomics Research Institute, University of Pretoria (UP)
- **Prof Themba Dube** – Professor: Mathematics, University of South Africa (Unisa)
- **Prof Ian Dubery** – Research Professor: Dept of Biochemistry; and Director: Centre for Plant Metabolomics, University of Johannesburg (UJ); *and also in the Special Annual Theme category*
- **Prof Raymond Durrheim** – DSI/NRF SARChI Chair: Exploration, Earthquake and Mining Seismology, School of Geosciences, University of the Witwatersrand (Wits)
- **Prof Jacobus (Kobus) N Eloff** – Extraordinary Lecturer and Founder: Phytomedicine Programme, Faculty of Veterinary Science, UP; and Professor Extraordinaire: Unisa
- **Prof Penelope Engel-Hills** – Associate Professor: Interdisciplinary Health Sciences; and Acting Dean: Health and Wellness Sciences, Cape Peninsula University of Technology (CPUT)
- **Prof Andrew Forbes** – Professor: School of Physics, Wits
- **Prof Jan Dirk Kramers** – Research Professor: Dept of Geology, UJ
- **Prof Pieter le Roux** – Emeritus Professor: Dept of Soil, Crop and Climate Sciences, University of the Free State (UFS); and Director: Digital Soils Africa; *and also in the NSTF-WRC category*
- **Traditional Doctor Ephraim C Mabena** – Founder Member, Executive Director and Overseer: Mothong African Heritage; *and also in the Management, NSTF-Lewis Foundation Green Economy, and Special Annual Theme categories; and see also the Non-Governmental Organisation category for the Mothong African Heritage*
- **Prof Johannes (Jannie) P Maree** – Professor: Department of Water and Sanitation, University of Limpopo (UL); Director: and Reverse Osmosis/Cooling Water Technologies (ROC); *and see also the Innovation: Corporate Organisation category for the ROC Water Technologies (PTY) Ltd*
- **Prof Mammo Muchie** – Research Professor: DSI/NRF SARChI Chair (Tier1): Innovation Studies, Tshwane University of Technology; Adjunct Professor: Adama Science and Technology University, Arsi University, Addis Ababa University, Universities of Gondar and Haramaya, in Ethiopia; Bahir Dar University and Raira University in Kenya; *and also in the Special Annual Theme category*
- **Prof Zacharias (Zakkie) Pretorius** – Research Fellow, Dept of Plant Sciences, University of the Free State *and also in the Special Annual Theme category*
- **Prof Paul Prinsloo** – Professor: Open and Distance Learning, Unisa
- **Prof Michèle Ramsay** – Professor: Human Genetics; Director: Sidney Brenner Institute of Molecular Bioscience; and DSI/NRF SARChi: Bioinformatics and Genomics of African Populations, Wits
- **Prof Marie Christine (Chrissie) Rey** – Professor: Microbiology, Wits; *and also in the Special Annual Theme category*
- **Prof Leslie Swartz** – Distinguished Professor: Dept of Psychology, Stellenbosch University
- **Prof Robert J Wilkinson** – Honorary Professor: UCT and University College London; Director: Wellcome Institute for Infectious Disease Research, UCT; Group Leader: Francis Crick Institute, London; and Professor: Infectious Diseases, Imperial College, London
- **Prof Michael Wingfield** – Professor: Forestry and Agricultural Biotechnology Institute (FABI); and Adviser to the Executive, UP; *and also in the Special Annual Theme category*

2. TW Kambule-NSTF Award: Researcher
- **Prof Jennifer Broadhurst** – Research Director, Department (Dept) of Chemical Engineering; Deputy-Director: Minerals to Metals, University of Cape Town (UCT); Interim Dept of Science and Innovation (DSI)/National Research Foundation (NRF) South African Research Chair (SARChI): Bioprocess Engineering; and Director: Global Challenges Research Fund, Mine Dust and Health Network
- **Prof Michael Olawale Daramola** – Associate Professor: Dept of Chemical Engineering, University of the Witwatersrand; *and also in the Engineering Research Capacity Development category*
- **Prof Anton du Plessis** – Associate Professor: Physics Dept; Manager: X-ray Computed Tomography (CT) Scanner Facility, Stellenbosch University (SU); Associate Researcher: Engineering, Nelson Mandela University; *and see also the Data for Research category for the CT Scanner facility*
- **Prof Victoria Jideani** – Professor and Leader: Cereals and Legumes Biopolymer Research for Food Security, Cape Peninsula University of Technology (CPUT); *and also in the Innovation: Corporate Organisation, and Special Annual Theme categories*
- **Prof Christine Lochner** – Co-Director: South African Medical Research Council (MRC) Unit on Risk and Resilience in Mental Disorders, Dept of Psychiatry, SU
- **Prof Salome Mamokome Mahlo** – Associate Professor and Head of Ethno-medicinal Plans Laboratory, Dept of Biodiversity and Botany, University of Limpopo (Medical University of South Africa); *and also in the Data for Research, and Special Annual Theme categories*
- **Prof Wanda Markotter** – DSI/NRF SARChI Chair: Infectious Diseases in Animals (Zoonoses); Director: Centre for Viral Zoonoses, Dept of Medical Virology, Faculty of Health Sciences, University of Pretoria
- **Prof Hassina Mouri** – Full Professor: Dept of Geology, University of Johannesburg (UJ)
- **Dr Nothando Ngwenya** – Research Scientist: Africa Health Research Institute, Mtubatuba, KwaZulu-Natal
- **Prof Samuel Oluwatobi Oluwafemi** – Dept of Chemical Sciences, UJ
- **Prof Adebola Omowunmi Oyedeji** – Professor: Organic Chemistry; and Leader: Natural Product Research Group, Walter Sisulu University; *and also in the NSTF-Lewis Foundation Green Economy, and Special Annual Theme categories*
- **Dr Goddeti Siva Mohan Reddy** – Head Scientist Research and Development Material Technology Solutions (Pty) Ltd; *and also in the Innovation: Small and Medium Enterprises, and Special Annual Theme categories*
- **Prof Riaan Johannes Rudman** – Associate Professor: School of Accountancy, Faculty of Economic and Management Sciences, SU
- **Prof Vernon S Somerset** – Associate Professor: Environmental Chemistry, Dept of Chemistry, Faculty of Applied Sciences, CPUT
- **Prof Marianne Vanderschuren** – Professor: Centre for Transport Studies, Dept of Civil Engineering, Faculty of Engineering and the Built Environment, UCT
- **Prof Liesl Zühlke** – Paediatric Cardiologist, Senior Lecturer, and Director: Children's Heart Disease Unit, Red Cross War Memorial Children's Hospital, Faculty of Health Sciences, UCT

3. TW Kambule-NSTF Award: Emerging Researcher
Prize sponsor: pro*SET* (Professionals in SET), a sector of the NSTF representing professional bodies and learned societies
- **Dr Natsayi Chimbindi** – Senior Researcher: HIV Prevention, Africa Health Research Institute, Mtubatuba, KwaZulu-Natal
- **Dr Mahabubur Rahman Chowdhury** – Senior Lecturer: Department (Dept) of Chemical Engineering, Cape Peninsula University of Technology (CPUT)
- **Prof Lisa C du Toit Lee Shong** – Associate Professor: Pharmaceutical Chemistry; Senior Researcher: Advanced Drug Delivery Platform Research Unit, University of the Witwatersrand (Wits)
- **Dr Wynand J Goosen** – Post-doctoral Research Fellow: Dept of Science and Innovation (DSI)/National Research Foundation (NRF) Centre of Excellence for Biomedical TB Research, Division of Molecular Biology and Human Genetics, Dept of Biomedical Sciences, Faculty of Medicine and Health Sciences, Stellenbosch University (SU)
- **Prof Pragashnie Govender** – Academic Leader: Research; and Associate Professor: Discipline of Occupational Therapy, School of Health Sciences, University of KwaZulu-Natal
- **Prof Rose Hayeshi** – Director and Associate Professor: DSI/North-West University (NWU) Preclinical Drug Development Platform, NWU
- **Dr Sharief Hendricks** – Senior Lecturer: Division of Exercise Science and Sports Medicine, Dept of Human Biology, Faculty of Health Sciences, University of Cape Town (UCT); and Visiting Fellow: Leeds Beckett University, England
- **Dr Ramona Hurdayal** – Lecturer: Dept of Molecular and Cell Biology, Faculty of Science, UCT
- **Prof Oghenetega Ighedo** – Associate Professor: Dept of Mathematical Sciences, University of South Africa (Unisa)
- **Dr Reshma Kassanjee** – Senior Research Officer: Centre for Infectious Disease Epidemiology and Research (CIDER), UCT
- **Prof Kanzumba Kusakana** – Professor and Head of Dept: Electrical, Electronic and Computer Engineering, Central University of Technology
- **Dr Vhahangwele Masindi** – Research Scientist: Magalies Water; Principal Researcher: Council for Scientific and Industrial Research (CSIR); Research Fellow: Unisa; Part-time Lecturer: University of Venda; *and also in the Engineering Research Capacity Development, NSTF-Lewis Foundation Green Economy, NSTF-Water Research Commission (WRC), Innovation: Corporate Organisation, and Special Annual Theme categories*
- **Dr Darryl Naidoo** – Principal Researcher: National Laser Centre, CSIR
- **Prof Philiswa Nosizo Nomngongo** – Associate Professor and Chair: DSI/NRF South African Research Chair Initiative, Nanotechnology for Water, University of Johannesburg (UJ)
- **Prof Benita Olivier** – Personal Professor: Research and Postgraduate Coordinator, Physiotherapy Dept; and Research Director: Wits Institute for Sports and Health, Wits
- **Dr Natasha Ross** – Research Team Leader: Chemistry Dept, University of the Western Cape
- **Dr Monnamme Tlotleng** – Principal Scientist: Laser Materials Processing, Additive Manufacturing Group, CSIR; and Associate Researcher: Mechanical Engineering Science, UJ
- **Prof Izak van Zyl** – Associate Professor: Transdisciplinary Studies, Dept of Applied Design Faculty of Informatics and Design, CPUT
- **Prof Richard Walls** – Associate Professor: Fire Engineering Research Unit, SU
- **Dr Jacqueline Wormersley** – Senior Scientist: Dept of Psychiatry, SU

4. Management Award
- **Professor Judith Kinnaird** – Associate Professor and Director: Economic Geology Research Unit; Co-Director: Dept of Science and Innovation (DSI), Centre of Excellence (CIMERA) for the Study of Mineral and Energy Deposits, School of Geosciences, University of the Witwatersrand
- **Traditional Doctor Ephraim C Mabena** – Founder Member, Executive Director and Overseer: Mothong African Heritage; *and also in the Lifetime, NSTF-Lewis Foundation Green Economy, and Special Annual Theme categories; and in the Non-Governmental Organisation category for Mothong African Heritage*
- **Mr Navin Singh** – Co-Director: Mandela Mining Precinct, Johannesburg
- **Prof Frederik (Frik) van Niekerk** – Professor: Nuclear Engineering; Professor: Energy, Unit for Energy and Technology, Contracts Director: DSI Hydrogen Infrastructure Centre of Competence; *previously* Vice-Rector responsible for Technology and Innovation, North-West University; and Director: Viridis Ipsum (Pty) Ltd

5. Engineering Research Capacity Development Award
Sponsored by Eskom since 2003
- **Prof Michael Olawale Daramola** – Associate Professor: Department (Dept) of Chemical Engineering, University of the Witwatersrand; *and also in the TW Kambule-NSTF Researcher category*
- **Prof Walter W Focke** – Director: Institute of Applied Materials, Dept of Chemical Engineering, University of Pretoria (UP)
- **Prof Daniël G Hattingh** – Professor in Mechanical Engineering, Nelson Mandela University
- **Dr Vhahangwele Masindi** – Research Scientist: Magalies Water; Principal Researcher: Council for Scientific and Industrial Research; Research Fellow: University of South Africa; Part-time Lecturer: University of Venda; *and also in the TW-Kambule-NSTF Emerging Researcher, NSTF-Lewis Foundation Green Economy, NSTF-Water Research Commission, Innovation: Corporate Organisation, and Special Annual Theme categories*
- **Prof Josua P Meyer** – Professor and Head: Dept of Mechanical and Aeronautical Engineering; and Chair: School of Engineering, Built Environment and Information Technology, UP
- **Dr Abimbola Olukemi Windapo** – Associate Professor: Dept of Construction Economics and Management, University of Cape Town

6. NSTF-Lewis Foundation Green Economy Award
Sponsored by The Lewis Foundation since 2019
- **Prof Kingsley Kwabena Ayisi** – Manager: Risk and Vulnerability Science Centre, University of Limpopo; *and also in the Special Annual Theme category*
- **Prof M J (Thinus) Booysen** – Associate Professor: Faculty of Engineering, Stellenbosch University (SU); *and also in the NSTF-Water Research Commission (WRC) category*
- **Prof Hindrik (Henk) Bouwman** – Professor of Zoology: School of Biological Sciences and Research, Unit for Environmental Sciences and Management, North-West University; *and also in the NSTF-WRC category*
- **Prof Leslie Brown** – Professor and Head: Applied Behavioural Ecology and Ecosystem Research Unit, University of South Africa (Unisa)
- **Prof Kerstin Krüger** – Associate Professor: Department (Dept) of Zoology and Entomology, University of Pretoria; *and also in the Special Annual Theme category*
- **LTM Energy (Pty) Ltd** – Director: Mr Dhevandran Pillay
- **Traditional Doctor Ephraim C Mabena** – Founder Member, Executive Director and Overseer: Mothong African Heritage; *and also in the Lifetime, Management, and Special Annual Theme categories; and see also the Non-Governmental Organisation category for the Mothong African Heritage*
- **Dr Vhahangwele Masindi** – Research Scientist: Magalies Water; Principal Researcher: Council for Scientific and Industrial Research; Research Fellow: Unisa; Part-time Lecturer: University of Venda; *and also in the TW Kambule-NSTF Emerging Researcher, Engineering Research Capacity Development, NSTF-Water Research Commission (WRC), Innovation: Corporate Organisation, and Special Annual Theme categories*
- **Prof Adebola Omowunmi Oyedeji** – Professor: Organic Chemistry; Leader: Natural Product Research Group, Walter Sisulu University; *and also in the TW Kambule-NSTF Researcher, and Special Annual Theme categories*
- **Research Connect Group** – Head: Professor Johann Meyer; and Head: Electrical Engineering School, University of Johannesburg
- **Sharksafe (Pty) Ltd** – CEO and Co-Inventor: Prof Conrad Matthee, Dept of Botany and Zoology, SU
- **Prof Johannes L (Wikus) van Niekerk** – Director: Centre for Renewable and Sustainable Studies; and Dean: Engineering, SU
- **Prof Gina Ziervogel** – Associate Professor: Dept of Environmental and Geographical Science, University of Cape Town

7. NSTF-Water Research Commission (WRC) Award
Sponsored by the WRC since 2017
- **Prof Omotayo A Arotiba** – Professor: Department (Dept) of Chemical Sciences; Director: Centre for Nanomaterials Science Research, University of Johannesburg (UJ)
- **Prof M J (Thinus) Booysen** – Associate Professor: Faculty of Engineering, Stellenbosch University (SU); *and also in the NSTF-Lewis Foundation Green Economy category*
- **Prof Hindrik (Henk) Bouwman** – Professor: Zoology, School of Biological Sciences and Research, Unit for Environmental Sciences and Management, North-West University; *and also in the NSTF-Lewis Foundation Green Economy category*
- **Prof Faizal Bux** – Director and Professor: Institute for Water and Wastewater Technology, Durban University of Technology (DUT), Dept of Science and Innovation/National Research Foundation South African Research Chair Initiative: Wastewater Treatment, DUT; *and also in the Lifetime category*
- **Prof Luke Chimuka** – Professor and Research Group Leader: Environmental Analytical Chemistry, University of the Witwatersrand; *and also in the Innovation: Corporate Organisation category*
- **Prof Pieter le Roux** – Emeritus Professor: Dept of Soil, Crop and Climate Sciences, University of the Free State (UFS); and Director: Digital Soils Africa; *and also in the Lifetime category*
- **Dr Vhahangwele Masindi** – Research Scientist: Magalies Water; Principal Researcher: Council for Scientific and Industrial Research; Research Fellow: University of South Africa (Unisa); Part-time Lecturer: University of Venda; *and also in the TW Kambule-NSTF Emerging Researcher, Engineering Research Capacity Development, NSTF-Lewis Foundation Green Economy, Innovation: Corporate Organisation, and in the Special Annual Theme categories*
- **Nanotechnology and Water Sustainability Research Unit, Science, Engineering and Technology College, Unisa** – Team Leader: Prof Thabo Nkambule
- **Prof Paul Oberholster** – Director: Centre for Environmental Management, UFS
- **Prof Kriveshini Pillay** – Associate Professor: Dept of Applied Chemistry, UJ
- **Dr Abraham Singels** – Principal Agronomist: South African Sugarcane Research Institute; Extraordinary Professor: Faculty of Natural and Agricultural Sciences, Dept of Plant Production and Soil Sciences, University of Pretoria; Honorary Associate Professor: College of Agriculture, Engineering and Science, School of Agricultural Earth and Environmental Sciences, University of KwaZulu Natal; *and also in the Special Annual Theme category*
- **Stellenbosch University Water Institute (SUWI)** – Director: Prof Gideon Wolfaardt; and Director: Ekhurhuleni Water Care Company (ERWAT); Chair: Water Management, SU

8. Data for Research Award
- **Prof Salome Mamojone Mahlo** – Associate Professor: University of Limpopo (MEDUNSA campus); *and also in the TW Kambule-NSTF Researcher, and Special Annual Theme categories*
- **Mr Chipa Thomas Maimela** – Senior Co-ordinator: Training (Online science for learners), Department of Education, University of Pretoria; *and also in the Communication, and Special Annual Theme categories*
- **Prof Oluwafemi O Oguntibeju** – Professor and Group Leader: Phytomedicine and Phytochemistry Research Group, Cape Peninsula University of Technology
- **South African Population Research Infrastructure Network (SAPRIN)** – Co-Directors: Prof Mark Collinson and Dr Kobus Herbst, University of the Witwatersrand, Rural Campus, Mpumalanga
- **Stellenbosch University Computed Tomography (CT) facility Team** – Team Leader: Prof Anton du Plessis; Associate Professor: Physics Dept; Manager: X-ray CT Scanner Facility, Stellenbosch University; *and see also the TW Kambule-NSTF Researcher category for Prof Anton du Plessis*

9. Innovation Award: Corporate Organisation
- **Prof Luke Chimuka** – Professor and Research Group Leader: Environmental Analytical Chemistry, University of the Witwatersrand (Wits); *and also in the NSTF-Water Research Commission (WRC) category*
- **Functional Foods Research Unit, Cape Peninsula University of Technology (CPUT)** – Head and Co-Inventor of Patents: Associate Prof Maretha Opperman
- **Prof Victoria Jideani** – Professor and Leader: Cereals and Legumes Biopolymer Research for Food Security, CPUT; *and also in the TW Kambule-NSTF Researcher, and Special Annual Theme categories*
- **Dr Vhahangwele Masindi** – Research Scientist: Magalies Water; Principal Researcher: Council for Scientific and Industrial Research (CSIR); Research Fellow: University of South Africa; Part-time Lecturer: University of Venda; *and also in the TW Kambule-NSTF Emerging Researcher, Engineering Research Capacity Development, NSTF-Lewis Foundation Green Economy, NSTF-WRC, and Special Annual Theme categories*
- **Mr Abdul-Khaaliq Mohammed** – Lecturer: School of Electrical and Information Engineering, Wits
- **Dr Tozama Qwebani-Ogunleye –** Project Manager and Researcher: Institute of Traditional Knowledge and Traditional Medicine-Dihlare, Vaal University of Technology
- **Reverse Osmosis/Cooling (ROC) Water Technologies, Director**: **Prof Johannes (Jannie) P Maree** – Professor: Department of Water and Sanitation, University of Limpopo; *and also in the Lifetime category*
- **The Smart Spectrum Sharing Team** – Team Leader and Chief Research Scientist: Dr Fisseha Mekuria, CSIR

10. Innovation Award: Small, Medium and Micro Enterprise (SMME)
Sponsored by the National Intellectual Property Management Office (NIPMO) since 2019
- **DesSoft Design Software (Pty) Ltd** – Development Director: Mr Thunis Kruger
- **Durban Technology Hub t/a SmartXchange** – Chief Executive Officer: Mr Jonathan Naidoo; *and also in the Non-Governmental Organisation category*
- **Green Team: Council for Scientific and Industrial Research (CSIR) and Industry Partners: Clive Teubes Aromatics, Biodx (Pty) Ltd, Puris (Pty) Ltd and ConnectME** – Team Leader: Dr Lucia Steenkamp; Principal Researcher: Biosciences, Chemical Cluster, CSIR
- **Inno R Solutions (Pty) Ltd** – Managing Director and Co-Inventor of Spinetector Safety Vest: Mr Sello P Malinga
- **Material Technology Solutions (Pty) Ltd** – Head Scientist Research and Development: Dr Goddeti Siva Mohan Reddy; *and also in the TW Kambule-NSTF Researcher, and Special Annual Theme categories*
- **Memeza Shout (Pty) Ltd** – Director: Ms Thulile Mthethwa

11. Communication Award
- **Communications Team, University of Pretoria (UP)** – Team Leader: Sieraaj Ahmed, News Editor
- **Department of Institutional Advancement, UP Communication Team** – Team leader: Primarashni Gower
- **Prof Christopher Henshilwood** – Distinguished Professor and Chair: South African Department (Dept) of Science and Innovation/National Research Foundation Research Chair Initiative in Modern Human Origins, Evolutionary Studies Institute, University of the Witwatersrand; Director: Research Council of Norway Centre of Excellence, Centre for Early Sapiens Behaviour, 2017-2026 University of Bergen; Professor: African Prehistory, Department of Archaeology, History, Cultural Studies and Religion, University of Bergen, Norway
- **Mr Paul Kennedy** – Project Manager and Multimedia Science Communicator: Sciencelink
- **Mr Chipa Thomas Maimela** – Senior Co-ordinator Training (Online science for learners), Dept of Education, UP; *and also in the Special Annual Theme category*
- **Dr Rehana Malgas Enus** – Senior Lecturer and Researcher: Nanotechnology, Dept of Chemistry and Polymer Science, Stellenbosch University
- **Prof Jeanine Marnewick** – Research Chair: Biotechnology; and Director: Applied Microbial and Health Biotechnology Institute, Cape Peninsula University of Technology
- **Dr Steven Mufamadi** – Managing Director: Nabio Consulting (Pty) Ltd
- **Ms Chumisa Ndlazi** – Divisional Communications Practitioner, Next Generation Health and Chemicals Cluster, Council for Scientific and Industrial Research
- **Prof Carolina Odman** – Associate Professor and Associate Director: Development and Outreach, Inter-University Institute of Data Intensive Astronomy, University of the Western Cape
- **The North-West University (NWU) "Teachers Without Borders" Project** – Team Leader: Prof Josef de Beer, Research Professor, NWU
- **Vuwani Science Resource Centre** – Co-Ordinator: Dr Nnditshedzeni Eric Maluta, Head of Dept Physics, University of Venda

12. Non-Governmental Organisation (NGO) Award
- **Durban Technology Hub t/a SmartXchange** – Chief Executive Officer (CEO): Mr Jonathan Naidoo; *and also in the Innovation: Small, Medium and Micro Enterprises category*
- **Eskom Expo for Young Scientists** – Executive Director: Mr Parthy Chetty
- **Federation for a Sustainable Environment** – CEO and Team Leader: Ms Mariette Liefferink
- **Mothong African Heritage** – Founder Member, Executive Director and Overseer: Traditional Doctor Ephraim C Mabena; and see also the Lifetime, Management, NSTF-Lewis Foundation Green Economy, *and Special Annual Theme categories for Traditional Doctor Ephraim C Mabena*

13. Special Annual Theme Award: Plant Health
- **Prof Kingsley Kwabena Ayisi** – Manager: Risk and Vulnerability Science Centre, University of Limpopo (UL); *and also in the NSTF-Lewis Foundation Green Economy category*
- **Prof Ian Dubery** – Research Professor: Department (Dept) of Biochemistry; Director: Centre for Plant Metabolomics, University of Johannesburg; *and also in the Lifetime category*
- **Prof Victoria Jideani** – Professor and Leader: Cereals and Legumes Biopolymer Research for Food Security, Cape Peninsula University of Technology; *and also in the TW Kambule-NSTF Researcher, and Innovation: Corporate Organisation categories*
- **Prof Kerstin Krüger** – Associate Professor: Dept of Zoology and Entomology, University of Pretoria (UP); *and also in the NSTF-Lewis Foundation Green Economy category*
- **Prof Salome Mamokome Mahlo** – Associate Professor; Head: Ethno-medicinal Plants Laboratory, Dept of Biodiversity and Botany, UL (MEDUNSA campus); *and also in the Data for Research category*
- **Mr Chipa Thomas Maimela** – Senior Co-ordinator: Training, Online Science for learners, Dept of Education, UP; *and also in the Data for Research, Communication categories*
- **Dr Vhahangwele Masindi** – Research Scientist: Magalies Water; Principal Researcher: Council for Scientific and Industrial Research; Research Fellow: University of South Africa; Part-time Lecturer: University of Venda; *and also in the TW Kambule-NSTF Researcher, Engineering Research Capacity Development, NSTF-Lewis Foundation Green Economy, NSTF-Water Research Commission (WRC), and Innovation: Corporate Organisation categories*
- **Material Technology Solutions (Pty) Ltd** – Head Scientist Research and Development: Dr Goddeti Siva Mohan Reddy; *and also in the TW Kambule-NSTF Researcher, and Innovation: Small, Medium and Micro Enterprise categories*
- **Prof Mammo Muchie** – Research Professor: Dept of Science and Innovation/National Research Foundation South African Research Chair Initiative Tier1: Innovation Studies, Tshwane University of Technology; Adjunct Professor: Adama Science Technology University, Arsi University, Addis Ababa University, and Universities of Gondar and Haramaya, Ethiopia, and Bahir Dar University and Raira University in Kenya; *and also in the Lifetime category*
- **Prof Adebola Omowunmi Oyedeji** – Professor: Organic Chemistry, and Leader: Natural Product Research Group, Walter Sisulu University; *and also in the TW Kambule-NSTF Researcher, and NSTF-Lewis Foundation Green Economy categories*
- **Prof Zacharias (Zakkie) Pretorius** – Research Fellow: Dept of Plant Sciences, University of the Free State; *and also in the Lifetime category*
- **Prof Marie Christine (Chrissie) Rey** – Professor: Microbiology, University of Witwatersrand; *and also in the Lifetime category*
- **Dr Abraham Singels** – Principal Agronomist: South African Sugarcane Research Institute; Extraordinary Professor: Faculty of Natural and Agricultural Sciences, Dept of Plant Production and Soil Sciences, UP; Honorary Associate Professor: College of Agriculture, Engineering and Science, School of Agricultural Earth and Environmental Sciences, University of KwaZulu-Natal; *and also in the NSTF-WRC category*
- **Prof Michael Wingfield** – Professor: Forestry and Agricultural Biotechnology Institute (FABI); and Adviser to the Executive, UP; *and also in the Lifetime category*

Adjudication: The accreditation and selection process for the NSTF-South32 Awards are made by an adjudication panel of independent judges. They represent six different sectors of the NSTF membership. This adjudication panel, in conjunction with the Award partners, review the nominations to select the finalists and winners each year. A panel of experts, appointed by the NSTF Executive Committee, also assists the panel by reviewing and validating the final selections.

Youth programmes: One of the features that make these awards unique is that youth outreach is an integral part of the awards. Two NSTF Youth outreach programmes are run annually in conjunction with the NSTF Awards.
- The NSTF Brilliants Programme identifies and celebrates the top achievers in physical science and mathematics from the previous year's matric examinations, who are studying in science, engineering or medicine. It exposes these young people to the SET community. Eighteen first year students (a young man and a woman from each province) are recognised as possible future leaders and innovators.
- Success is not about where you are, but who you have elevated in the process. The NSTF Share 'n Dare Programme is an outreach programme of the NSTF-South32 Awards that profiles award winners as youth role models. Award winners share their experience and knowledge with thousands of young people at science centres and universities across the country. They encourage the youth to take up careers in SET. Thousands of South Africans are also reached through community and campus radio station awareness talks.

Announcing Awards finalists and winners

The announcement of the NSTF-South32 Awards finalists will be circulated through the NSTF eNews during **May 2020.** The announcement of the winners will take place at a date and time to be confirmed later – pending developments around COVID-19.

Attending the 'Science Oscars'

The patron of the NSTF Awards, the Minister of Higher Education, Science and Innovation, Dr Blade Nzimande presides over the presentation of awards. The Minister confirmed his participation.

Media partners and advertising campaign

There are two media partners of the NSTF Awards to ensure national public recognition to the winners, as well as to facilitate the communication of science to the broader public. They are:
- **Business Report,** carried by The Star, Pretoria News, Cape Times, and The Mercury newspapers
- **Mail & Guardian**

Both these newspapers carry supplements about the winners the day after the announcement of the winners. Unique advertising opportunities are available for your brand. Contact Ms Wilna Eksteen at awards@nstf.org.za or call +27 (0)12 841-3987/4995.

Partnerships and sponsorships

Organisations are invited to join hands with the NSTF to widen the reach and impact of the NSTF-South32 Awards and youth programmes. Partnerships are available on new and existing award categories and the youth outreach programmes. Contact Ms Wilna Eksteen at awards@nstf.org.za or call +27 (0)12 841-3987/4995.

Please forward this email to your colleagues, business contacts and all interested persons to promote the who's who of SET and innovation in South Africa!

About the NSTF
The National Science and Technology Forum (NSTF), established in 1995, is a broadly-representative stakeholder body for all SET and innovation organisations in South Africa, which seeks to influence policy formulation and delivery.

The NSTF Awards are unique in SA, recognising the outstanding contributions of individuals and groups to SET and innovation.

The science bursaries page provides information on bursaries and bursary providers for science, engineering and related studies.

Disclaimer
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