

Nominees announced: 2018/2019 NSTF-South32 Awards

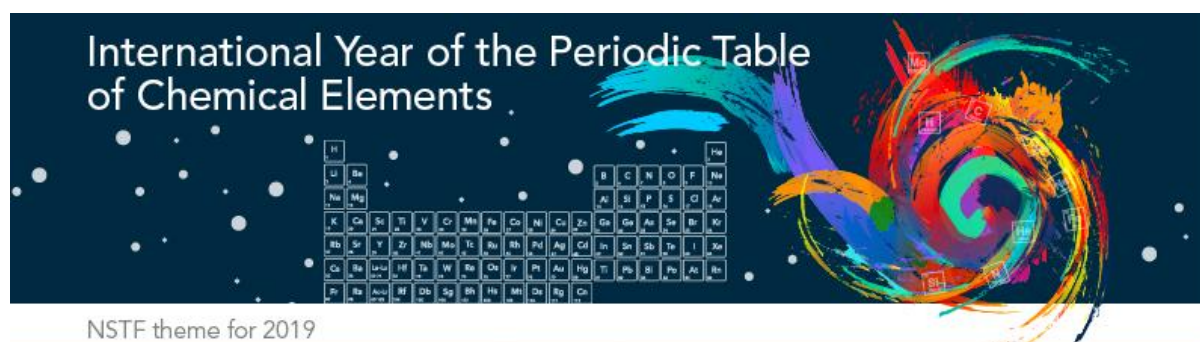
Recognising excellence and outstanding contributions to science, engineering and technology and innovation in South Africa

The [National Science and Technology Forum \(NSTF\)](#) is pleased to announce the group of [nominees](#) contending for the 21st 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 most 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 2018/2019 NSTF-South32 Awards is the **Periodic Table of Chemical Elements**. This is in recognition of the [2019 International Year of the Periodic Table of Chemical Elements](#) as declared by the United Nations (UN). The 21st annual [Awards Gala Dinner](#) will celebrate this theme on 27 June 2019.

What’s new this year?

There are a few [changes](#) to categories and criteria this year.

1. **Special Annual Theme Award:** The NSTF is making a special [theme award](#) this year for a *contribution to SET and innovation for **materials for inclusive economic development***. This is in recognition of the UN's celebration of the '2019 International Year of the Periodic Table of Chemical Elements'. The theme provides a focus on research in materials science and the development of materials to support relevant aspects of economic development in South Africa.
2. **Communication award:** This award for [outreach and communicating awareness](#) of SET and innovation within the last 5 years also considered nominations for professional science communicators working in the field.
3. **New partners:** The NSTF welcomes two new category partners this year. The Lewis Foundation is the sponsor for the [Green Economy Award](#).

The National Intellectual Property Management Office (NIPMO) is 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.

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 that with the Water Research Commission, Lewis Foundation, and Eskom) recognise contributions that have the potential to make a positive impact on South Africa, and on the world.

2018/2019 NSTF-South32 Awards nominees

Join the NSTF [membership](#) and pioneering [partners/sponsors](#) in applauding the 2018/2019 NSTF-South32 Awards [nominees](#). These comprise individuals, teams and organisations, as applicable, who have made an **outstanding contribution to SET and innovation in South Africa** under the [categories](#) below:

- *An asterisk (*) 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

Lifetime Award

(by an individual over a lifetime – 15 years or more)

- **Prof Jill Adler** – Department (Dept) of Science and Technology (DST)/National Research Foundation (NRF) South African Research Chairs Initiative (SARChI) Chair: Mathematics Education, School of Education, University of the Witwatersrand (Wits)
- **Prof John Bolton** – Professor Emeritus and Senior Research Scholar, Dept of Biological Sciences, University of Cape Town (UCT)
- **Prof Donald Cowan** – Director: Centre for Microbial Ecology and Genomics Research Institute, University of Pretoria (UP)
- **Prof Robin Crewe** – Senior Research Fellow: Centre for the Advancement of Scholarship, UP
- **Prof Monuko du Plessis** – Professor Emeritus: Dept of Microelectronics, Electrical, Electronic and Computer Engineering, UP
- **Prof Christiaan Cornelius du Preez** – Professor: Dept of Soil, Crop and Climate Sciences, University of the Free State *and also in the NSTF-Water Research Commission category**
- **Prof Wilhelm Bouwer du Preez** – Director: Centre for Rapid Prototyping and Manufacturing Research Centre; Associate Professor: Central University of Technology, Free State
- **Prof Ian Dubery** – Research Professor: Dept of Biochemistry; Director: Centre for Plant Metabolomics, University of Johannesburg (UJ)
- **Prof Mary (Mairam) Gulumian** – (2018-Present) Head: Toxicology Research Projects, National Institute for Occupational Health (NIOH); (1980-2017) Head: Toxicology section, NIOH; Professor: Haematology and Molecular Medicine, Wits
- **Prof Yskandar Hamam** – Emeritus Professor: Dept of Electrical Engineering, Tshwane University of Technology (TUT)
- **Prof Emmanuel Iheanyichukwu Iwuoha** – DST/NRF SARChI Chair (Tier 1): Nano Electrochemistry and Sensor Technology; Senior Professor: Chemistry; Director: Sensor Laboratories, University of the Western Cape *and also in the Special Annual Theme category**
- **Prof Kerstin Krüger** – Associate Professor: Dept of Zoology and Entomology, UP
- **Prof Valerie Mizrahi** – Director: Institute of Infectious Disease and Molecular Medicine; Professor: Dept of Pathology; Director: South African Medical Research Council / National Health Laboratory Service / UCT

	<p>Molecular Mycobacteriology Research Unit; Co-Director: DST/NRF Centre of Excellence for Biomedical Research; UCT</p> <ul style="list-style-type: none"> • Prof Mammo Muchie – Research Professor: DST/NRF SARChI Chair (Tier1) Innovation Studies, TUT • Prof Alexander Quandt – Acting Chair: Materials for Energy Research Group; Focus Area Co-ordinator: Centre of Excellence in Strong Materials, Wits <i>and also in the Special Annual Theme category*</i> • Prof David Mark Richardson – Distinguished Professor and Director: DST-NRF Centre of Excellence for Invasion Biology, Dept of Botany and Zoology, Stellenbosch University (SU) • Prof Mark Robertson – Professor: Dept of Zoology and Entomology, UP • Prof Iakovos Sigalas – Professor: Ceramic Science, Dept of Metallurgical Engineering, School of Chemical and Metallurgical Engineering; Ceramics Focus Area Coordinator: DST/NRF Centre of Excellence in Strong Materials, Wits • Prof Beric Skews – Director: Flow Research Unit, School of Mechanical, Industrial and Aeronautical Engineering, Wits • Prof Vijaya Srinivasu Vallabhapurapu – Professor: Physics, University of South Africa • Prof SH (Basie) von Solms – Professor and Director: Centre for Cyber Security, UJ • Prof Gerhard Walzl – Distinguished Professor and Executive Head: Department of Biomedical Sciences; Director: DST/NRF Centre of Excellence in Biomedical TB Research, Head of Division of Molecular Biology and Human Genetics, Faculty of Medicine and Health Sciences, SU • Prof Xiaohua Xia – Professor: Dept of Electrical, Electronic and Computer Engineering, UP
<p>TW Kambule-NSTF Awards: Researcher (contribution to research and its outputs over a period of up to 15 years as a researcher, predominantly in South Africa)</p>	<ul style="list-style-type: none"> • Prof Tunde Bello-Ochende – Professor and Deputy Head: Research Department (Dept), Dept of Mechanical Engineering, University of Cape Town (UCT) • Mr André Johan Botha – Manager: Vultures for Africa Programme, Endangered Wildlife Trust; Co-chair: International Union for the Conservation of Nature's Species Survival Commission, Vulture Specialist Group • Prof Novel Njweipi Chegou – Associate Professor: Division of Molecular Biology and Human Genetics, Dept of Biomedical Sciences, Stellenbosch University (SU) • Dr Silethelwe Chikosha – Senior Researcher: Titanium Centre of Competence, Council for Scientific and

Industrial Research (CSIR) *and also in the Special Annual Theme category**

- **Prof Yahya E. Choonara** – Principal Scientist: Wits Advanced Drug Delivery Platform (WADDP) Research Unit; Chair and Head: Dept of Pharmacy and Pharmacology; Personal Professor: Pharmaceutics; Co-Director: WADDP Syndicate, Wits Health Consortium, University of the Witwatersrand (Wits)
- **Prof Serena Coetzee** – Professor: Head of Geography Dept, Geo-informatics and Meteorology; Director: Centre for Geo-Information Science, University of Pretoria (UP)
- **Prof Mokhotjwa (Simon) Dhlamini** – Professor: Physics, Dept of Physics, University of South Africa (UNISA)
- **Prof Anton du Plessis** – Associate Professor: Physics Dept; Unit Manager: CT Scanner Facility, SU *and also the nomination for the CT Scanner facility in the Data for Research, and the Special Annual Theme categories**
- **Prof Andre Ganswindt** – Professor and Director: Mammal Research Institute, Dept of Zoology and Entomology, Faculty of Natural and Agricultural Sciences, UP
- **Prof Freedom Gumedze** – Associate Professor and Student Advisor: Dept of Statistical Sciences, UCT
- **Prof Vishnu Jejjala** – Dept of Science and Technology (DST)/National Research Foundation (NRF) South African Research Chair Initiative (SARChI) Chair: Theoretical Particle Cosmology; Professor: Physics, Wits
- **Dr Maya Jacob John** – Principal Researcher: Polymers and Composites Competence Area, CSIR, Port Elizabeth *and also in the Special Annual Theme category**
- **Prof Anna Margaretha Joubert** – Professor: Head of Physiology Dept, UP
- **Prof Bavesh Davandra Kana** – Professor: Research and Teaching; Co-Director: DST/NRF Centre of Excellence for Biomedical TB Research; Research Associate: Centre for AIDS Prevention Research in South Africa (CAPRISA), Wits *and also in the Corporate Innovation category**
- **Prof Andreas Lemmerer** – Associate Professor: School of Chemistry, Wits
- **Prof Susan Ilani Loubser** – Associate Professor: Centre for Space Research, North-West University
- **Prof Phatu William Mashela** – Senior Professor and Research Leader: Green Biotechnologies Centre of

Excellence, Faculty of Science and Agriculture, University of Limpopo

- **Prof Tandi Matsha** – SARChI Chair: Cardiometabolic Health, Dept of Biomedical Sciences, Cape Peninsula University of Technology *and also in the Data for Research category**
- **Prof Mervin Meyer** – Professor: Biotechnology; Director: DST/Mintek Nanotechnology Innovation Centre – Biolabels Research Node, Dept of Biotechnology, University of the Western Cape (UWC)
- **Prof Ajay Kumar Mishra** – Professor and Researcher: Nanotechnology and Water Sustainability Research Unit, College of Science, Engineering and Technology, UNISA *and also in the NSTF-Water Research Commission (WRC) category**
- **Prof Shivani Mishra** – Professor: Nanotechnology and Water Sustainability Research Unit, College of Science, Engineering and Technology, UNISA *and also in the NSTF-WRC category**
- **Prof Sanushka Naidoo** – Associate Professor: Dept of Genetics, Faculty of Natural and Agricultural Sciences, UP
- **Prof Ntobeko Ayanda Bubele Ntusi** – Professor: Medicine; Chair and Head: Dept of Medicine, UCT and Groote Schuur Hospital; Principal Investigator: Cape Universities Body Imaging Centre, UCT; Editor-in-Chief: South African Heart Journal; Principal Investigator: Hatter Institute for Cardiovascular Research in Africa
- **Prof Kenneth Ozoemena** – Professor: Materials for Energy and Electrochemistry, School of Chemistry, Wits *and also in the Special Annual Theme category**
- **Prof Gerhard Prinsloo** – Associate Professor: Dept of Agriculture and Animal Health, UNISA
- **Prof Neerish Revaprasadu** – DST/NRF SARChI Chair: Nanotechnology; Professor: Chemistry, University of Zululand *and also in the Special Annual Theme category**
- **Prof Riaan Johannes Rudman** – Associate Professor: School of Accountancy, Faculty of Economic and Management Sciences, SU
- **Prof Marla Trindade** – Professor: Dept of Biotechnology; Director: Institute for Microbial Biotechnology and Metagenomics; DST/NRF SARChI Chair: Microbial Genomics, UWC
- **Prof Este van Marle-Köster** – Head: Dept of Animal and Wildlife Sciences, Faculty of Natural and Agricultural Sciences; (Previous Position) Associate Professor: Animal Breeding and Genetics, UP

	<ul style="list-style-type: none"> • Prof Paul Watts – DST/NRF SARCHI Chair: Micro-fluidic Biochemical Processing, Nelson Mandela University <i>and also in the Corporate Innovation category*</i> • Prof Lindiwe Innocentia Zungu – Executive Dean: Graduate Studies, UNISA <i>and also in the Special Annual Theme, and Corporate Innovation categories*</i>
<p>TW Kambule-NSTF Awards: Emerging researcher (contribution to research and its outputs over a period of up to 6 years in research, predominantly in South Africa – Prize sponsor: proSET (Professionals in SET), a sector of the NSTF representing professional bodies and learned societies)</p>	<ul style="list-style-type: none"> • Dr Bahareh Bagheri – Post-doctoral Fellow: Division (Div) of Molecular Biology and Human Genetics, Faculty of Medicine and Health Sciences, Stellenbosch University (SU) • Ms Netanya Bernitz – Molecular biology doctoral student: South African Medical Research Council (SAMRC) Centre for Molecular and Cellular Biology, Div of Molecular Biology and Human Genetics, Faculty of Medicine and Health Sciences, SU • Mrs Sophia Magaretha Brink – Senior Lecturer: School of Accountancy, SU • Ms Josephine Chileshe – PhD candidate: SAMRC Centre for Molecular and Cellular Biology, Div of Molecular Biology and Human Genetics, Faculty of Medicine and Health Sciences, SU • Dr Jonah Nathaniel Choiniere – Reader: Evolutionary Studies Institute, University of the Witwatersrand (Wits) • Dr Mahabubur Rahman Chowdhury – Senior Lecturer: Department (Dept) of Chemical Engineering, Cape Peninsula University of Technology (CPUT) • Dr Tatenda Dalu – Research Associate: South African Institute for Aquatic Biodiversity; Senior Lecturer: Freshwater Ecology Research Group, University of Venda (Univen) • Dr Thomas Ebenhan – Research Fellow: Nuclear Medicine; Acting Manager: NuMeRI, Pre-clinical Imaging Facility, University of Pretoria (UP) • Dr Jennifer Fitchett – Senior Lecturer: Physical Geography, School of Geography, Archaeology and Environmental Studies, Wits • Prof Elvis Fosso-Kankeu – Associate Professor: School of Chemical and Minerals Engineering, North-West University <i>and also in the NSTF-Water Research Commission (WRC), and Engineering Research Capacity Development categories*</i> • Prof Willem Fourie – Associate Professor: Albert Luthuli Centre for Responsible Leadership, Faculty of Economic and Management Sciences, UP • Dr Wynand J Goosen – Post-doctoral Research Fellow: Dept of Science and Technology (DST)/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, SU

- **Dr Mardé Helbig** – Senior lecturer: Computer Science Dept, UP
- **Dr Guy Paulin Kamatou** – Technologist: Dept of Pharmaceutical Science, Tshwane University of Technology (TUT) *and also in the Engineering Research Capacity Development category**
- **Dr Okuthe Paul Kogeda** – Senior Lecturer: Dept of Computer Science, TUT
- **Prof Tjaart Krüger** – Associate Professor: Dept of Physics, UP
- **Dr Elizabeth le Roux** – Associate Professor: Publishing Studies, Dept of Information Science, UP
- **Mr Stephan Gerhard le Roux** – Senior Analyst: Physics Dept, CT Scanner Facility, SU
- **Prof Evelyn Madoroba** – Associate Professor: Microbiology, University of Zululand
- **Prof Mohlopheni Jackson Marakalala** – Associate Professor: University College London; Honorary Research Associate: University of Cape Town (UCT); Associate Professor: Africa Health Research Institute, Visiting Scientist: Harvard School of Public Health
- **Dr Vhahangwele Masindi** – Research Scientist: Magalies Water; Principal Researcher; Council for Scientific and Industrial Research (CSIR); Research Fellow: University of South Africa (UNISA); Part-time Lecturer: Univen *and also in the Corporate Innovation, and NSTF-WRC categories**
- **Prof Eshchar Mizrachi** – Associate Professor: Dept of Biochemistry, Genetics and Microbiology, and Forestry and Agricultural Biotechnology Institute, UP *and also in the Special Annual Theme category**
- **Dr Elizabeth Mkandawire** – Research Assistant: Institute for Food, Nutrition and Well-being, UP
- **Dr Bohani Mtileni** – Senior Lecturer: Dept of Animal Sciences, TUT
- **Dr Hlumani Ndlovu** – Lecturer: Div of Chemical and Systems Biology, Dept of Integrative Biomedical Sciences, UCT
- **Dr Vincent Ojijo** – Principal Researcher and Facility Manager: Nanomaterials Industrial Development Facility, CSIR
- **Prof Thomas Otieno Olwal** – Associate Professor: Computer Science Dept, TUT
- **Dr Suraj Prakash Parihar** – Senior Research Officer; Contributing Investigator: Wellcome Centre of Infectious Diseases Research in Africa and Institute of Infectious

	<p>Disease and Molecular Medicine, Faculty of Health Sciences, UCT</p> <ul style="list-style-type: none"> • Dr Eduard Roos – Postdoctoral Scientist: Div of Molecular Biology and Human Genetics, Faculty of Medicine and Health Sciences, SU; visiting The Pirbright Institute, United Kingdom • Prof Izak van Zyl – Associate Professor: Transdisciplinary Studies, Faculty of Informatics and Design, CPUT • Dr Bjorn Phillip von der Heyden – Lecturer: Dept of Earth Sciences, SU
<p>Management Award (contribution through management and related SET and innovation activities over the last 5-10 years)</p>	<ul style="list-style-type: none"> • Dr Amogelang Sylvester Bolokang – Principal Researcher: Council for Scientific and Industrial Research (CSIR) • Prof Roger Lawrence Gibson – Head: School of Geosciences, University of the Witwatersrand • Dr Happy Marumo Sithole – Director: Centre for High Performance Computing, CSIR <i>and also in the Data for Research category*</i>
<p>Engineering Research Capacity Development Awards (contribution by an individual over the last 5 to 10 years – Eskom sponsors two awards one for a male and one for a female for contributions in Engineering)</p>	<ul style="list-style-type: none"> • Prof Elvis Fosso-Kankeu – Associate Professor: School of Chemical and Minerals Engineering, North-West University <i>and also in the NSTF-Water Research Commission, and Emerging Researcher categories*</i> • Dr Kessie Govender – Senior Lecturer: Cape Peninsula University of Technology • Dr Guy Paulin Kamatou – Technologist: Department (Dept) of Pharmaceutical Science, Tshwane University of Technology <i>and also in the Emerging Researcher category*</i> • Prof Alison Lewis – Dean: Faculty of Engineering and the Built Environment, University of Cape Town (UCT) • Prof Ncholu Ignatius Manyala – Professor: Physics; Dept of Science and Technology (DST)/National Research Foundation (NRF) South African Research Chair Initiative (SARChI) Chair: Carbon Technology and Materials, University of Pretoria • Dr Sudesh Sivarasu – Associate Professor: Division of Biomedical Engineering, Dept of Human Biology, Faculty of Health Sciences, UCT; International Adjunct Lecturer: Global Health and Technologies, School of Professional Studies, Northwestern University, Chicago, United States of America • Prof Eric Wilhelmus Josephus van Steen – DST/NRF SARChI Chair: Reaction Engineering, UCT • Dr Abimbola Olukemi Windapo – Associate Professor:

	<p>Dept of Construction Economics and Management, UCT <i>and also in the Special Annual Theme category*</i></p>
<p>NSTF-Lewis Foundation Green Economy Award: Contribution to research and innovation in SA towards achieving biodiversity conservation, environmental sustainability and a greener economy (by an individual or an organisation over the last 5 to 10 years – sponsored by the Tony and Lisette Lewis Foundation)</p>	<ul style="list-style-type: none"> • Prof Elizelle Juaneé Cilliers – Professor and Chairperson: Urban and Regional Planning, North-West University <i>and also in the Communication category*</i> • Dr Linda Zikhona Langaniso – Senior Lecturer and Researcher: Department of Chemistry, University of Zululand • Prof Adebola Omowunmi Oyedeji – Professor: Organic Chemistry, Walter Sisulu University • Pennine Energy Innovations (Pty) Ltd – Directors and Co-Founders: Dr Dudley Jackson and Mr Richard Mutshekwane <i>and also in the NSTF-Water Research Commission, and Innovation: Small Medium and Micro Enterprise categories*</i> • Process, Energy & Environmental Technology Station (UJ-PEETS) – Technology Station Manager: Ms Nicoleen Janse van Rensburg, University of Johannesburg • Prof Martine Visser – Director: Environmental Policy Research Unit; Professor: Economics, School of Economics; Research Chair: African Climate Development Initiative, University of Cape Town • Wits African Ecology and Conservation Biology Research Group, Wits Centre for African Ecology – Director: Prof Francesca Parrini, University of the Witwatersrand (Wits)
<p>NSTF-Water Research Commission (WRC) Award: Sustainable water management, knowledge generation and solutions (by an individual or an organisation to be awarded in recognition of demonstrated leadership and impact over the last 5 to 10 years – sponsored by the WRC)</p>	<ul style="list-style-type: none"> • Prof Christiaan Cornelius du Preez – Professor: Department of Soil, Crop and Climate Sciences, University of the Free State <i>and also in the Lifetime category*</i> • Prof Elvis Fosso-Kankeu – Associate Professor: School of Chemical and Minerals Engineering, North-West University <i>and also in the Emerging Researcher, and the Engineering Research Capacity Development categories*</i> • GEOTERRAIMAGE (Pty) Ltd – Mr Mark William Thompson, Director: Natural Resource Management, GEOTERRAIMAGE (Pty) Ltd • Dr Vhangwele Masindi – Research Scientist: Magalies Water; Principal Researcher: Council for Scientific and Industrial Research (CSIR); Research Fellow: University of South Africa (UNISA); Part-time Lecturer: University of Venda <i>and also in the Corporate Innovation, and Emerging Researcher categories*</i> • Prof Ajay Kumar Mishra – Professor and Researcher: Nanotechnology and Water Sustainability Research Unit, College of Science, Engineering and

	<p>Technology, UNISA <i>and also in the Researcher category*</i></p> <ul style="list-style-type: none"> • Prof Shivani Mishra – Professor: Nanotechnology and Water Sustainability Research Unit, College of Science, Engineering and Technology, UNISA <i>and also in the Researcher category*</i> • Prof Okechukwu Jonathan Okonkwo – Professor Emeritus: Research and Development; Rand Water Chair: Organic Chemistry, Tshwane University of Technology <i>and also in the Special Annual Theme category*</i> • Pennine Energy Innovations (Pty) Ltd – Directors and Co-Founders: Dr Dudley Jackson and Mr Richard Mutshekwané <i>and also in the NSTF-Lewis Foundation Green Economy, and Innovation: Small, Medium, Micro Enterprise categories*</i>
<p>Data for Research Award: For advancing the availability, management and use of data for research (by an individual or an organisation)</p>	<ul style="list-style-type: none"> • Mr Abraham Jacobus Herbst – Director: Department of Science and Technology (DST)/South African Medical Research Council South African Population Research Infrastructure Network (SAPRIN); Chief Information Officer and Faculty Member: Africa Health Research Institute • Prof Tandi Matsha – DST/National Research Foundation South African Research Chair Initiative, Chair: Cardiometabolic Health, Cape Peninsula University of Technology <i>and also in the Researcher category*</i> • Dr Happy Marumo Sithole – Director: Centre for High Performance Computing, Council for Scientific and Industrial Research <i>and also in the Management category*</i> • Stellenbosch CT facility Team – Team leader: Prof Anton du Plessis, Stellenbosch University <i>and also the nomination for Prof Anton du Plessis in the Researcher category*</i> • Prof Russ Taylor – Professor and Square Kilometre Array Research Chair: Inter-University Institute for Data Intensive Astronomy, University of the Western Cape
<p>Innovation Awards – Corporate organisation: For innovations and their research and/or development over the last 5 to 10 years</p>	<ul style="list-style-type: none"> • Africa Space Innovation Centre (ASIC) – Director: Prof Robert van Zyl, Cape Peninsula University of Technology • CSIR Bioplastic Research Team – Senior Researcher: Dr Sudhakar Muniyasamy, Material Science and Manufacturing Unit, Polymer and Composite Research Competence, Council for Scientific and Industrial Research (CSIR) • Department (Dept) of Science and Technology (DST)-CSIR Nanomaterials Industrial Development

(by a team or an individual – Prize sponsor: SA Innovation Summit)

Programme, DST-CSIR National Centre for Nanostructured Materials, CSIR – Programme Leader: Dr Manfred Scriba *and also in the Special Annual Theme category**

- **Electronic Warfare Modelling and Simulation, Defence and Security Unit, CSIR** – Research Group Leader: Reeshen Reddy
- **Forensic DNA Laboratory (FDL) team** – Professor and Team Leader: Prof Maria Eugenia D'Amato; Professor: Department of Biotechnology, Faculty of Natural Sciences; University of the Western Cape
- **Prof Bavesh Davandra Kana** – Personal Professor; Co - Director: DST/NRF Centre of Excellence for Biomedical TB Research, Wits University; Research Associate: Centre for AIDS Prevention Research in South Africa (CAPRISA); Research Fellow: Stellenbosch University (SU)
- **Dr Vhahangwele Masindi** – Research Scientist: Magalies Water; Principal Researcher; CSIR; Research Fellow; University of South Africa (UNISA); Part-time Lecturer: University of Venda *and also in the Emerging Researcher, and NSTF-Water Research Commission categories**
- **Prof Emmanuel Rotimi Sadiku** – Research Professor: Tshwane University of Technology
- **Dr Sudesh Sivasaru** – Associate Professor: Division of Biomedical Engineering, Dept of Human Biology, Faculty of Health Sciences, University of Cape Town; International Adjunct Lecturer: Global Health and Technologies, School of Professional Studies, Northwestern University, Chicago, United States of America
- **Solar Thermal Energy Research Group (STERG)** – Team Leader: Prof Sybrand Johannes van der Spuy, Associate Professor and Solar Thermal Spoke grant holder
- **South African Radio Astronomy Observatory (SARAO) Science Processing Team** – Manager: Mr Khutso Ngoasheng
- **The Airborne Synthetic Aperture Radar (SAR) Development Team, Defence, Peace, Safety and Security Unit, CSIR** – Research Group Leader and Principal Project Manager: Mr Vinodhan Selvarajalu
- **The Smart Spectrum Sharing Team** – Team Leader and Chief Research Scientist: Dr Fisseha Mekuria, CSIR
- **Prof Lindiwe Innocentia Zungu** – Executive Dean: Graduate Studies, UNISA *and also in the Special Annual Theme, and the Researcher categories**

<p>Innovation Awards – Small, Medium and Micro Enterprise (SMME): For innovations and their research and/or development over the last 5 to 10 years (by a team or an individual – category and prize sponsor: National Intellectual Property Management Office (NIPMO), and SA Innovation Summit additional prize sponsor)</p>	<ul style="list-style-type: none"> • CEILING IN A CAN – Inventor and Team Leader: Mr David Pons, Lecturer, Mangosuthu University of Technology • Dr Lucia Steenkamp Development Team – Principal Researcher: Biosciences, Council for Scientific and Industrial Research • Eskom Expo for Young Scientists – Executive Director: Mr Parthy Chetty <i>and also in the Non Governmental Organisation, and Communication categories*</i> • Hydrox Holdings Ltd Team – Team Leader: Mr Cornelis Johannes de Jager, Chief Executive Officer • Marian Island Marine Mammal Programme – Team Leader: Prof Nico de Bruyn, Associate Professor, Department of Zoology and Entomology, University of Pretoria (UP) • Pennine Energy Innovations (Pty) Ltd – Directors and Co-Founders: Dr Dudley Jackson and Mr Richard Mutshekwané <i>and also in the NSTF-Water Research Commission, and NSTF-Lewis Foundation Green Economy categories*</i> • UP Natural Hazard Centre – Team Leader and Director: Professor Andrzej Kijko, Department of Geology,
<p>Communication for outreach and creating awareness of SET and innovation Award (by a team or individual over the last 5 years)</p>	<ul style="list-style-type: none"> • Prof Michael Noel (Mike) Bruton – Founder and Director: Mike Bruton Imagineering; Retired Research Scientist and Science Administrator; Active Science Communicator • Prof Elizelle Juaneé Cilliers – Professor and Chairperson: Urban and Regional Planning, North-West University <i>and also in the NSTF-Lewis Foundation Green Economy category*</i> • Eskom Expo for Young Scientists – Executive Director: Mr Parthy Chetty <i>and also in the Innovation: Small, Medium and Micro Enterprise, and Non Governmental Organisation categories*</i> • Mrs Wiida Fourie-Basson – Media Officer and Science Writer: Faculty of Science, Stellenbosch University • Ms Mologadi Makwela – Communications Officer: Department (Dept) of Science and Technology/National Research Foundation Centre of Excellence: Food Security, University of the Western Cape • Prof Tahir Pillay – Chief Specialist and Head: Dept of Chemical Pathology; Head: Pathology, Faculty of Health Sciences, University of Pretoria and National Health Laboratory Service • Dr Dyllon Garth Randall – Senior Lecturer: Dept of Civil Engineering, University of Cape Town

	<ul style="list-style-type: none"> • Dr Tanja Reinhardt – Coordinator: Science and Technology Education Centre, University of KwaZulu-Natal • Wits Communications Services – Head: Shirona Patel, University of the Witwatersrand (Wits)
<p>Non-governmental organisation (NGO) Award (contribution over the last 5 to 10 years to SET including innovation, technology transfer, and education and training activities – Prize sponsor: SA Innovation Summit)</p>	<ul style="list-style-type: none"> • Centre for Rapid Prototyping and Manufacture (CRPM) Unit, Central University of Technology, Free State – Director and Team Leader: Mr Gerrie Booysen • Durban Technology Hub t/a SmartXchange – Chief Executive Officer: Mr Jonathan Naidoo • Eskom Expo for Young Scientists – Executive Director: Mr Parthy Chetty <i>and also in the Innovation: Small, Medium and Micro Enterprise, and Communication categories*</i> • Outlook Foundation – Chief Executive Officer: Mr Segomotso Edison Kelefetswe
<p>Special Annual Theme Award: Materials for inclusive economic development (awarded according to criteria in any of the other categories but which meet this objective)</p> <p>For 2019, the award is made in recognition of the 'International Year of the Periodic Table of Chemical Elements' as declared by the United Nations</p>	<ul style="list-style-type: none"> • Dr Silethelwe Chikosha – Senior Researcher: Titanium Centre of Competence, Council for Scientific and Industrial Research (CSIR) <i>and also in the Researcher category*</i> • Department (Dept) of Science and Technology (DST)-CSIR Nanomaterials Industrial Development Programme, DST/CSIR National Centre for Nanostructured Materials, CSIR – Programme Leader: Dr Manfred Scriba <i>and also in the Management category*</i> • Prof Emmanuel Iheanyichukwu Iwuoha – DST/National Research Foundation (NRF) South African Research Chair Initiative (SARChI) Chair (Tier 1): Nano Electrochemistry and Sensor Technology; Senior Professor: Chemistry; Director: Sensor Laboratories, University of the Western Cape (UWC) <i>and also in the Lifetime category*</i> • Dr Maya Jacob John – Principal Researcher: Polymers and Composites Competence Area, CSIR, Port Elizabeth <i>and also in the Researcher category*</i> • Prof Eshchar Mizrachi – Associate Professor: Dept of Biochemistry, Genetics and Microbiology; and Forestry, and Agricultural Biotechnology Institute, University of Pretoria <i>and also in the Emerging Researcher category*</i> • Prof Okechukwu Jonathan Okonkwo – Professor Emeritus: Research and Development; Rand Water Chair: Organic Chemistry, Tshwane University of Technology <i>and also in the NSTF-Water Research Commission category*</i>

	<ul style="list-style-type: none"> • Prof Kenneth Ozoemena – Professor: Materials for Energy and Electrochemistry, School of Chemistry, University of the Witwatersrand (Wits) <i>and also in the Researcher category*</i> • Prof Alexander Quandt – Acting Chair: Materials for Energy Research Group; Focus Area Co-ordinator: Centre of Excellence in Strong Materials, Wits <i>and also in the Lifetime category*</i> • Prof Neerish Revaprasadu – DST/NRF SARCHI Chair: Nanotechnology; Professor: Chemistry, University of Zululand <i>and also in the Researcher category*</i> • Stellenbosch CT facility Team – Team leader: Prof Anton du Plessis, Stellenbosch University <i>and also in the Data for Research category, and also the nomination for Prof Anton du Plessis in the Researcher category*</i> • Dr Abimbola Olukemi Windapo – Associate Professor: Dept of Construction Economics and Management, University of Cape Town <i>and also in the Engineering Research Capacity Development category*</i> • Prof Lindiwe Innocentia Zungu – Executive Dean: Graduate Studies, University of South Africa <i>and also in the Researcher, and the Corporate Innovation categories*</i>
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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 and 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 output 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 2019**. The announcement of the [winners](#) will take place at the prestigious NSTF-South32 Awards [gala dinner](#) taking place on **27 June 2019** in Gauteng.

Attending the ‘Science Oscars’

The patron of the NSTF Awards, the Minister of Science and Technology, presides over the presentation of awards. The current Minister, Ms Mmamoloko Kubayi-Ngubane confirmed her attendance to participate in the proceedings this year. The event is a glamorous affair attended by the cream of the crop of the SET community. It is the largest event of its kind and is open to the public. Almost 700 guests attended the event last year. The SET community is invited to book tables for their organisations to celebrate the achievements of the nominees and finalists. Contact Ms Kgaugelo Teffo at enquiries@nstf.co.za or call +27 (0)12 841-2632/3987.

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 Awards gala dinner (Friday, 28 June 2019). Unique advertising opportunities are available for your brand. Contact Ms Wilna Eksteen at enquiries@nstf.co.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 enquiries@nstf.co.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!