



2016/2017 National Science and Technology Forum (NSTF) –South32 Awards
Today's research ... tomorrow's innovation

Nomination Form

**Category: Research leading to innovation
by teams or individuals in organisations**

These awards are made to a *team or individual* who have made outstanding contributions to science, engineering and technology (SET) through research that led to innovation in South Africa. Awards are made to teams or individuals from a:

- corporate organisation, or
- Small, medium or micro Enterprise (SMME)

(Please note that there is a separate form for non-governmental organisations (NGOs))

Please read the information on www.nstf.org.za/awards before completing this form – particularly: 'How to nominate', and 'terms and conditions', under 'Nominations'.

Deadline for submission of completed nomination forms: 12:00 on 3 March 2017

Nomination forms must be e-mailed to: enquiries@nstf.co.za

Please complete and submit the forms in MS Word (please do not submit as a pdf file) to allow the NSTF to copy text from the document.

Please ensure that you receive **acknowledgement of receipt** of your completed nomination documentation from the NSTF. In the event that you do not, please call the NSTF on Tel 012 841 3987 to make further arrangements.

Part 1: Nominee

Name of individual or team being nominated (nominee) E.g. (the Alpha Team from Beta Corporation)			
Current position/s of individual and name of applicable institution/ employer: Please provide full titles as applicable for all positions held			
Gender/Age/NRF rating of individual		M/F	Age: years
NRF rating if applicable:			
Physical address			
Telephone number		Cell number	
E-mail	Website		

The following table should be completed for the individual, or a team representative as applicable where different from the nominee.

Title and Full Name of representative			
Position in team/ organisation			
Gender/Age/NRF rating of individual		M/F	Age: years
NRF rating if applicable:			
Physical address			
Highest Qualification/s			
Telephone number		Cell number	
E-mail	Website		

Please complete the following table for each additional team member to be recognised: copy and paste for each additional team member as is necessary to include all the team members.

Title and Name of team member			
Current position/s and name of applicable institution/ employer			
Highest Qualification		NRF Rating if applicable	
Cell number	E-Mail		

Title and Name of team member			
Current position/s and name of applicable institution/ employer			
Highest Qualification		NRF Rating if applicable	
Cell number	E-Mail		

Part 2: Nominator and Secunder

(The details required in this section are those of the person making the nomination and the secunder)

Title and Full Name			
Current position/s and name of applicable institution/ employer			
Address			
Telephone number		Cell number	
E-mail		Website (if applicable)	

Secunder

(The details required below are those of the person seconding the nomination)

Title and Full Name			
Current position/s and name of applicable institution/ employer			
Address			
Telephone number		Cell number	
E-mail		Website (if applicable)	

Part 3: Referees: not required in this category.

Part 4: Communications Officer

(The details required below are those of the person responsible for communications with the media, at the institution/company/organisation of the nominee, or a person responsible for issuing media releases or articles on the work of the nominee.)

Title and Full Name			
Current position/s and name of applicable institution/ employer			
Address			
Telephone number		Cell number	
E-mail		Website (if applicable)	

Part 5: Type of Organisation through which the innovation is being developed and specific category in which this nomination is being made

(Indicate in the block on the right hand side. Where the organisation has not been identified above please ensure that the details for the organisation are provided below)

1. Corporate	
2. SMME	
3. Joint venture between parties - -elaborate	

Please note that a separate form is applicable to NGOs.

Organisation Details – repeat the block for more than one

Name of organisation			
Contact person			
Position in the organisation			
Physical address			
Telephone number		Cell Number	
E-mail		Website (if applicable)	

Part 6: Nominations in other categories

Indicate whether you intend to nominate the candidate, whether an individual, or a member of the team, in another category. The NSTF will validate the choice of organisation type – see Part 4. It is not necessary to submit duplicate nominations for other organisational types where there is some uncertainty as to the type of organisation.

Yes/No	
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If Yes, indicate the relevant category in the following table by number below.

Categories – Full title:	Working title:	Other categories in which the nominee will be nominated:
1. Awards for individual contributions		
1.1 An outstanding contribution to science, engineering, technology (SET) and innovation over a lifetime (15 years or more)	Lifetime award	
1.2 TW Kambule-NSTF Awards: an outstanding contribution to science, engineering, technology (SET) and innovation by an individual researcher (up to 15 years after award of PhD or equivalent in research)	Senior researcher award	
1.3 TW Kambule-NSTF Awards: an outstanding contribution to science, engineering, technology (SET) and innovation by an emerging researcher (Post-docs up to six years after award of PhD or equivalent in research)	Emerging researcher award	
1.4 An outstanding contribution to science, engineering, technology (SET) and innovation through management and related activities	Management and related activities award	

2. An outstanding contribution to science, engineering, technology (SET) and innovation through research or engineering capacity development, by an individual. Sponsored by Eskom.	Capacity development award	
3. NSTF-GreenMatter Award: for an outstanding contribution to science, engineering, technology (SET) and innovation in South Africa, towards achieving biodiversity conservation, environmental sustainability and a greener economy (over the last five to ten years)	GreenMatter award	
4. NSTF-Water Research Commission Award: for an outstanding contribution to science, engineering, technology (SET) and innovation in South Africa, towards sustainable water management, and knowledge generation solutions; to be awarded in recognition of demonstrated leadership and impact.	Water Research Commission award	
5. An outstanding contribution to science, engineering, technology (SET) and innovation, for advancing the availability, management and use of data for research	Data for research award	
6. Awards for research leading to innovation: an outstanding contribution to science, engineering, technology (SET) and innovation	Research for innovation awards	
7. Award for communication for outreach and creating awareness (over the last five years by a team or individual)	Communication award	
8. Award to a Non-governmental organisation for an outstanding contribution to science, engineering, technology (SET) and innovation (over the last five to ten years)	NGO award	
9. Annual theme award (awarded according to criteria in any of the above categories and the additional criteria in section 12 of the Nomination Form). For 2017 this Award is made for an outstanding contribution to science, engineering, technology (SET) and innovation which contributes to or supports Sustainable Tourism for Development , in recognition of the International Year of Sustainable Tourism for Development (as declared by the United Nations (UN))	Annual theme award	

Note that a separate nomination form must be completed for each additional category except for the Annual Theme Award. If the Annual Theme award is also selected, only this nomination form is required.

In all other cases a further nomination form should cross-refer to the principal nomination form and should provide only the differences.

Part 7: Summary of the specific contribution / project / output for which the nominee is being nominated

The summary should be suitable for use in the media and the Who's Who booklet of the NSTF Awards. It should be limited to no more than 100 words. Please describe the work in language suitable for the general public. Here follow some guiding notes.

- Explain the field and your work and why this is important and necessary
- Be clear about what makes the work different from others in the same field and/or with the same focus. Identify an extended component or an element that is particularly noteworthy. In essence, what makes this work stand out for the general public
- Avoid listing the publications and students supervised

One-liner for similar use to the above:

Part 8: Motivation

- Please read the **Terms and conditions** and other material on the website
- Responses should be factual and concise (no more than 400 words per criterion)
- Avoid a 'marketing style' approach
- Do not repeat what has been included under one criterion under another
- Technical jargon and terminology should be limited to only that which is necessary and where used, should be explained

Important note :

The Innovation can be from any branch of science including social science, medicine, and engineering. In the assessment greater weight will be given to criterion 4 and lesser weight to criteria 6, 7 and 8.

Section 1: Background and the Contribution to the advancement of science/ technological innovation/ new knowledge generated

1. Describe the inputs, including where relevant:

- the foundation on which the research and development which led to the innovation was built, particularly work by predecessors
- where, how and why the research and development which led to the innovation was undertaken in South Africa
- the resources that were available or became available during the course of the research and development
- describe the nature of the collaboration with other individuals and organisations, where relevant during the execution
- motivate why either a team or an individual is nominated, as applicable and delineate the roles played.

2. The research/development process: Describe the processes that were undertaken in the course of the research and development which led to the innovation, eg

- Were computer models, physical models or pilot plants built?
- Were trials undertaken?
- Describe the scientific, engineering or technological uniqueness and novelty of these research processes and the resultant contribution to the advancement of SET from such processes.

Section 2: Outputs - What has been done with the contribution to the advancement of science / technological innovation/ new knowledge generated described in the first section?

3. The Outputs: In summary what have been the outputs? In this context, outputs should comprise the elements of the science, engineering or technology which led to the innovation to be described under 4.) eg

- An exposition of an idea in a technical paper, a design, a policy, a series of models, a series of prototypes, a finished product, etc
- Describe the scientific or technological uniqueness and novelty of the research and development of the innovation to the advancement of SET and to the creation of new SET knowledge, both nationally and internationally
- Full details of publications, must be given under criterion 6) and listed in the Appendix. Students trained must be detailed under criterion 8) and listed in the Appendix

4. The practical application / implementation and commercial or economic impact:

- Describe the practical application of the innovation such as an accepted innovation in science, a project, or a product, or a range of products or a methodology or any other form of applied output completed in the recent past. Where the product has developed ie been modified over the period provide the history.
- Describe the commercial or economic aspects and impact of the innovation e.g. to what use has it been put?
- How did this innovation create wealth both for the individual or the team and/or the organisations involved?
- Can the cost of development be offset by cost savings, income generation, reduced loss of life etc?
- To what degree is the application economically viable and sustainable?
- Where there is only a potential, some estimate of the potential should be given.

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5. Relevance to South Africa and its people and resultant contribution to SET and innovation policy, which should be taken to include standards, practices, and methods:

- To what extent have the innovation and its research and development improved the quality of life of the people and communities of South Africa as a whole?
- How have the innovation and its research and development impacted on the environment and what has been the impact?
- How did the research and development of this innovation contribute to the establishment or improvement of SET related policy and practice in South Africa or
- In particular how has it contributed to the generation of standards or other forms of technology?

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6. Publications: To what extent has the innovation and its research and development been published (e.g. in journals and conference proceedings and in other media)? Please provide Bibliometric data, if available. The impact factor per publication should be provided where available.

Number of formal publications in accredited journals in the period relevant to the nomination	
The H-index (or <i>Hirsch-Index Benchmarking of Academic Research</i>) and/or the H-IF index (Hirsch-Impact Factor index) of the nominee for these.	
Number of books	
Number of chapters as contributions to a book	
Number of conference proceedings	

The full publication list should be included as an Appendix (see 11.2). Where longer lists for individuals need to be provided those publications which are relevant to the nomination should be highlighted.

7. Promotion of public understanding of science and technology:

To what extent has the innovation and its research and development been made public and contributed to the promotion of public understanding of science and technology by exposition to the general public and through the media?

Expand the table as is necessary:

Articles in the daily press	
Public lectures	
Interviews or programmes on TV	
Interviews or programmes on radio	
Articles in magazines or other popular media	
A maintenance manual for a product	

Section 3: Students, Education, Sustainability and Recognition.

8. Involvement of students and promotion of education in this field as a contribution to the public understanding of SET:

To what extent have the innovation and its research and development involved post-graduate students as a part of their degree?

	completed	current
Number of students participating for Masters degrees		
Number of students participating for Doctoral degrees		
Other students participating in the project.		
Other trainees participating in the project		

Please provide a full list of students supervised in Appendix 8.

To what extent has the innovation and its research and development contributed to the furtherance of education and training as distinct from what has been covered under other criteria? Consider contributions at all three levels, i.e. primary and secondary schools, and tertiary institutions, as well as for the general public, where relevant and not covered elsewhere. Eg lecturing, supervision of Honours students, or school visits. As well as internal training programmes.

9. Social and economic sustainability: Is the innovation and its research and development ongoing?

Yes/No	
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If Yes then

- What are the vision and plans for the further development of the science and technology employed in the innovation? Where is it really going?
- What future value will be added to the South African community?
- Will this vision be supported and will it be sustainable? An analysis of the impact on the finances of the organisation which has supported the development needs to be given.

10. National and international recognition including awards received by the nominees

Has this individual or team or the output received any recognition/awards from any bodies outside the immediate working environment of the nominee, considered nationally and internationally insofar as they can be related to the innovation and its research and development?

Yes/No	
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If Yes, please list awards received with description and dates:

11. Appendices

As appendices to this nomination, please include the following:

Note that where nominations are being submitted in more than one category, the CV and publications list should be annotated to indicate the applicable periods.

11.1 Brief CV – An organisational CV should be provided, being a statement in the form of a description of the size, shape and operations of the organisation and where the individual or team features in the structure. Where a joint venture is being nominated the structure of the JV and the responsibilities should be given.

11.2 A list of appropriate publications (see 6 and 7) above

11.3 A statement of scientific achievements and accomplishments of the principal members of the team. Alternatively brief CVs can also be provided.

11.4 A list of all students and trainees as applicable directly supervised

12. (To be completed only where the nomination is to be considered for the Annual Theme Award) **An outstanding contribution to SET which contributes to or supports Sustainable Tourism for Development**, in addition to all the above criteria.

Please note that answers provided in the main section should not be repeated here but rather referred to where applicable.

1. Describe briefly what is being done to showcase the SET work covered in the nomination.

2. Describe the numbers of persons who get to see and experience the SET work.

3. Describe the material available to demonstrate the work to tourists .

4. Over and above what has been stated in the motivation, is there any further contribution to sustainable economic growth from the showcasing of the SET work?

5. To what extent does the showcasing of the SET work and its demonstration provide for social inclusiveness, employment and poverty reduction?

6. To what extent is the SET work and its demonstration resource efficient, and does it contribute to environmental protection and to the reduction of the effects of/on climate change?

7. Describe to what extent do the SET work and its demonstration contribute to the preservation of cultural values, support diversity and respect heritage?

8. Describe to what extent do the SET work and its demonstration contribute to mutual understanding and peace and security?

Part 9: Declaration by the nominee which should encompass all members of the team where applicable
(Where multiple entries are necessary, please expand the space)

1. Accountability

Do you agree to the nomination and do you accept accountability for the content?	Yes/No
Signature of nominee – an electronic signature is acceptable	_____ So agreed Nominee's Signature

2. Previous nominations

Have you or other members of the team been nominated for the NSTF or NSTF-BHP Billiton Awards or NSTF-South32 Awards before?	Yes/No
If Yes, in what year/s and in which categories?	

3. Previous Finalist

Have you or other members of the team been a finalist in the NSTF or NSTF-BHP Billiton Awards or NSTF-South32 Awards before?	Yes/No
If Yes, in what year/s and in which categories?	

4. Previous Winner

Have you or other members of the team been a winner in any NSTF or NSTF-BHP Billiton Awards or NSTF-South32 Awards category before?	Yes/No
If Yes, in what year/s and in which category?	
Please confirm that the contribution for which you are being nominated in this nomination covers new work which was not recognised by a previous NSTF or NSTF-BHP Billiton Award or NSTF-South32 Award to you or any other members of the team. Where appropriate please provide an explanatory note.	----- So confirmed Nominee's Signature

2. Please indicate how you became aware of the call for nominations this year?

NSTF Newsletter	
NSTF Website	
Organisational Intranet	
Mail&Guardian newspaper advertisement	
Business Report newspaper advertisement	
Campus/Public Radio Broadcast	
Other (please specify)	