



## WOMEN RESEARCHERS BY REGION

Women remain under-represented in R&D in every region of the world.

SELECT REGION

VIEW  
PETRI DISH

ARAB STATES

TUNISIA

**54%**

0%

75% N/A

# 100 Women: 'We can't teach girls of the future with books of the past'

10/9/2017

100 Women: 'We can't teach girls of the future with books of the past' - BBC News



<b>Mom</b>	cook dinner	make dresses	serve and eat dinner	clean and wash	—	watch TV	go to bed
<b>Dad</b>	read newspaper /magazine	watch TV news	eat dinner	listen to music, do some writing	—	watch TV Talk-show.	go to bed

# Challenges in Africa

- Political and economic climate
- Culture, “acceptable roles for women”, violence (e.g., SA statistics, Boko Haram)
- Education/research judged inferior
- Intellectual slavery



# Strategies for change

- Workshops like this
- Establish strong networks and organizations
  - national (e.g. WiPiSA) and disciplinary (e.g. AASWomen)
  - Collaborate, share opportunities and stories
- Lobby larger scientific organizations for change, e.g. short postdocs

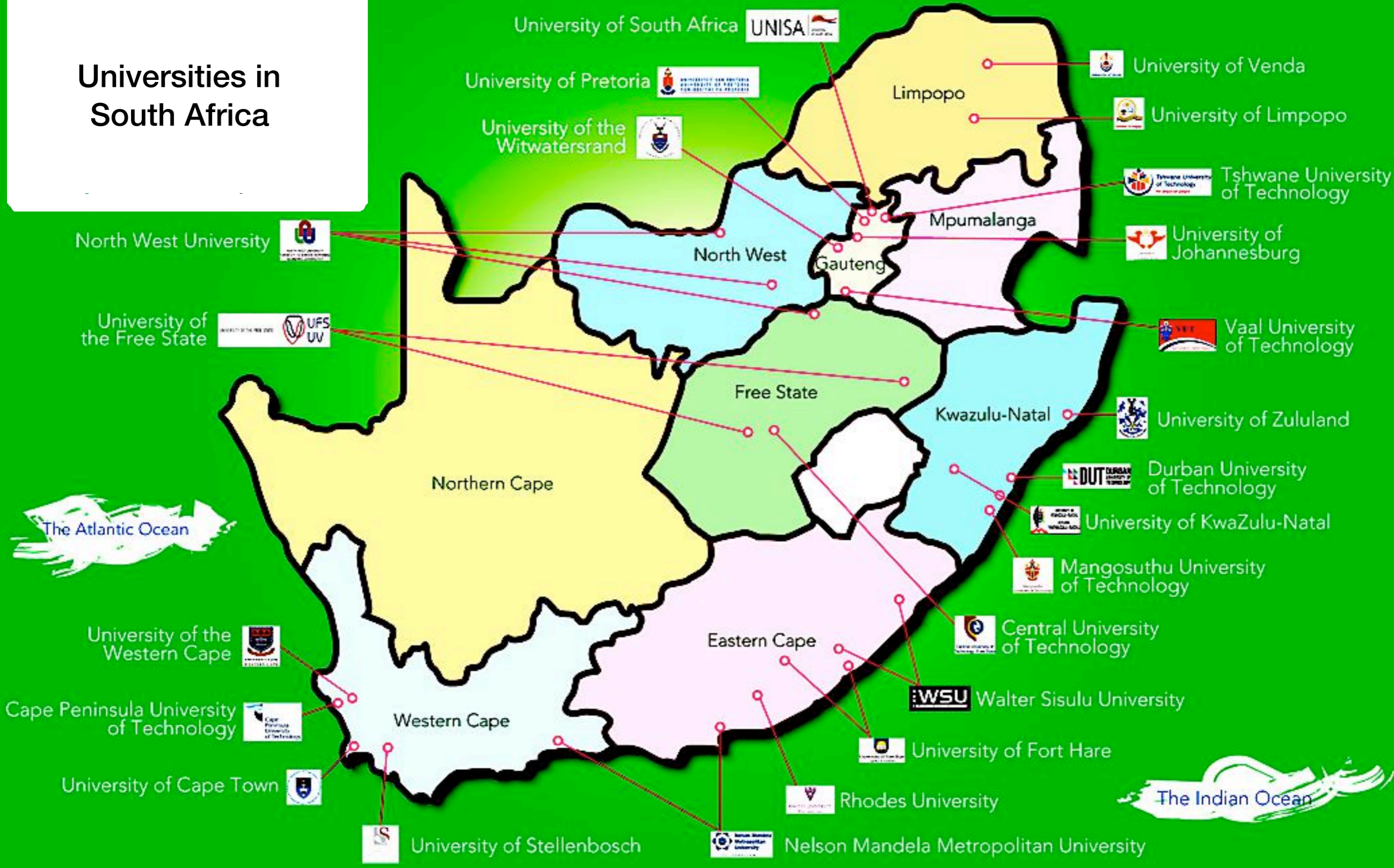
# Opportunities

- Many research environments are “young” and so perhaps more dynamic
- Connected families, all girls’ high schools

## Grants:

- ICTP, Rwanda (*Erika Coppola + panel*)
- TWAS (*Tonya Blowers*)
- OWSD (*Tonya Blowers*)

# Universities in South Africa





# National Astrophysics and Space Science Programme (NASSP)

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AVAILABLE PROJECTS

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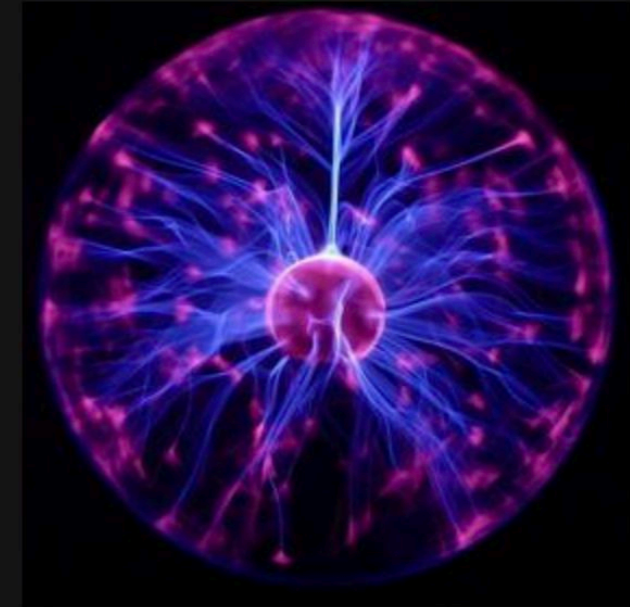
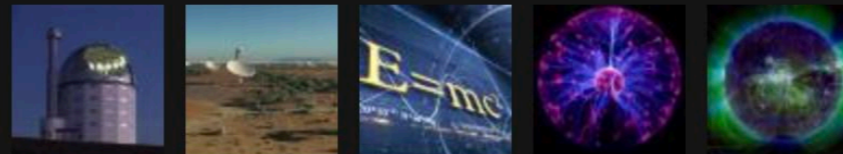
PARTICIPATING INSTITUTIONS

CONTACT US

PROJECT ALLOCATIONS

## PLASMA PHYSICS

What are the states of matter? Besides liquid, solid and gas, there is a fourth, less commonly understood state: plasma. Plasmas are created when the electrons surrounding an atom are stripped off by a strong external magnetic field or extreme temperatures. These extreme conditions exist inside the Sun as well as in many other astrophysical situations. Astronomers must study complex computer simulations to understand how these structures evolve and behave.



Application cycle is now open and will close on 31 August 2017.

UCT NODE

UKZN NODE

NWU NODE

## INTRO TO PROGRAMMES

South Africa has a long history of excellence in astronomy, a sound high-tech infrastructure and clear skies. Researchers from around the region have joined forces to create a cooperative, combined graduate programme hosted at the University of Cape Town where students from Africa, South Africa and the rest of the world can study under the guidance of some of South Africa's leading scientists. Two degree programmes are on offer:

[Honours in Astrophysics and Space Science](#)

[Masters in Astrophysics and Space Science](#)

- **Deadline ~ end of August each year**

NASSP website: [www.star.ac.za](http://www.star.ac.za)



# African Institute for Mathematical Sciences

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6 Melrose Road | Muizenberg | 7945 | Cape Town | South Africa | [www.aims.ac.za](http://www.aims.ac.za)

**See attached pdf**





Senegal

Ghana

Cameroon

Rwanda

Cape Town

ATLANTIC

OCEAN

# Grants for collaborative research in South Africa

Bilateral agreements with Italy, Mexico, EU, Japan, Jamaica, France, Wallonia-Brussels, Newton fund, STINT, China

The screenshot shows the National Research Foundation (NRF) website. The top navigation bar includes links for home, about us, NRF awards, media room, procurement, work at NRF, contact us, and feedback, along with a search bar. Below the navigation is a menu with seven categories: 01 Funding, 02 Bursaries & Scholarships, 03 Information Sources, 04 Science Engagement, 05 NRF Rating, 06 Research Platforms, and 07 Science Matters. The main content area is titled 'NRF Calls' under the 'Bursaries And Scholarships' section. There are filter tabs for OPEN, CLOSED, FUTURE, and ALL. Two call listings are visible: 'Southern African Systems Analysis Centre (SASAC) Doctoral Scholarships for Research using a Systems Analysis Methodology 2018' and 'South African Square Kilometre Array Project - Call for Applications'. Each listing has an 'apply' button and a 'read more' button. On the right side, there is a 'Related Pages' section with links for 'Non-NRF Opportunities', 'NRF Calls', and 'NRF Funded Thesis/Dissertation Requirements'.

- **NRF website: <http://www.nrf.ac.za/>**

<b>Grant</b>	<b>Level</b>	<b>Duration</b>	<b>Subject</b>	<b>Deadline</b>	<b>Nationality</b>
NRF-TWAS	Doctoral (20 scholars)	3 years	Science, Engineering + Technology	~Mid July	developing countries outside Africa
NRF-TWAS African Renaissance	Doctoral (50 scholars)	3 years	Science, Engineering + Technology	~Mid July	Africa excluding South Africa
NRF-TWAS	Postdoctoral Fellowship (10 for 2 years)	2 years	Science, Engineering + Technology	~Mid July	developing country excluding South Africa
NRF Freestanding, Innovation, Scarce Skills*	Masters Doctoral	2 years 3 years	- See call for list of subjects	~end July	Small % non- SA *SA Only
NRF Freestanding, Innovation, Scarce Skills*	Postdoctoral	2 years	- See call for list of subjects	~end July	Small % non- SA *SA Only
SANCOR	Postdoctoral	2years	Coastal and Oceanic Research	~end May	All



Appendix 1

TABLE 3: ELIGIBLE DEVELOPING COUNTRIES

155 ELIGIBLE DEVELOPING COUNTRIES					
1	Afghanistan	53	Grenada	105	Palau
2	Albania	54	Guatemala	106	Palestine, State of
3	Algeria	55	Guinea	107	Panama
4	Angola	56	Guinea-Bissau	108	Papua New Guinea
5	Antigua and Barbuda	57	Guyana	109	Paraguay
6	Argentina	58	Haiti	110	Peru
7	Armenia	59	Honduras	111	Philippines
8	Aruba	60	Hong Kong, SAR	112	Qatar
9	Azerbaijan	61	India	113	Romania
10	Bangladesh	62	Indonesia	114	Rwanda
11	Bahamas	63	Iran, Islamic Rep.	115	Samoa
12	Bahrain	64	Iraq	116	São Tomé and Príncipe
13	Barbados	65	Jamaica	117	Saudi Arabia
14	Belarus	66	Jordan	118	Senegal
15	Belize	67	Kazakhstan	119	Serbia
16	Benin	68	Kenya	120	Seychelles (Transitional)
17	Bhutan	69	Kiribati	121	Sierra Leone
18	Bolivia	70	Korea, Dem Rep.	122	Solomon Islands
19	Bosnia and Herzegovina	71	Kosovo	123	Somalia
20	Botswana	72	Kuwait	124	South Sudan
21	Brunei	73	Kyrgyz Republic	125	Sri Lanka
22	Brazil	74	Lao PDR	126	St. Lucia
23	Bulgaria	75	Lebanon	127	St. Vincent and the Grenadines
24	Burkina Faso	76	Lesotho	128	Sudan
25	Burundi	77	Liberia	129	Suriname
26	Cabo Verde	78	Libya	130	Swaziland
27	Cambodia	79	Macedonia, FYR	131	Syrian Arab Republic
28	Cameroon	80	Macau	132	Taiwan, China
29	Central African Republic	81	Madagascar	133	Tajikistan
30	Chad	82	Malawi	134	Tanzania

155 ELIGIBLE DEVELOPING COUNTRIES					
31	Chile	83	Malaysia	135	Thailand
32	China	84	Maldives	136	Timor-Leste
33	Colombia	85	Mali	137	Trinidad and Tobago
34	Comoros	86	Marshall Islands	138	Togo
35	Congo, Dem. Rep	87	Mauritania	139	Tonga
36	Congo, Rep.	88	Mauritius	140	Tunisia
37	Costa Rica	89	Mayotte	141	Turkey
38	Côte d'Ivoire	90	Mexico	142	Turkmenistan
39	Cuba	91	Micronesia, Fed. Sts.	143	Tuvalu
40	Djibouti	92	Moldova	144	Uganda
41	Dominica	93	Mongolia	145	Ukraine
42	Dominican Republic	94	Montenegro	146	United Arab Emirates
43	Ecuador	95	Morocco	147	Uruguay
44	Egypt, Arab Rep.	96	Mozambique	148	Uzbekistan
45	El Salvador	97	Myanmar	149	Vanuatu
46	Eritrea	98	Namibia	150	Venezuela
47	Ethiopia	99	Nepal	151	Vietnam
48	Fiji	100	Nicaragua	152	Western Samoa
49	Gabon	101	Niger	153	Yemen, Rep.
50	Gambia, The	102	Nigeria	154	Zambia
51	Georgia	103	Oman	155	Zimbabwe
52	Ghana	104	Pakistan		



THE CLAUDE  
LEON FOUNDATION

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- South African and foreign postdoctoral scientists
- Science, Engineering and Medical Sciences
- 2 years, R275,000/year + relocation + conferences
- **Deadline ~ End of May**

<http://www.leonfoundation.co.za/postdoctoral.htm>

# Women in Science

<http://www.womeninstemi.co.za/stories/>

I hope that my ordinary story inspires the ordinary child to look beyond their current situation to see a bright future for themselves.”

Education is the husband that will never leave you.

The dream of my future formidable self is the biggest influence on my life.

