

## OVERVIEW OF RESEARCH ACTIVITIES

2005 report on research to senate and council

COMPARATIVE ANALYSIS	Application year		
	2003	2004	2005
Total award to UCT	20 321 274	14 635 852	28 826 552
Average award	144 330	155 701	355 883
Total number of applications	183	118	99
Total number of awards	137	94	81
Total number of unsuccessful applications	46	24	18
Percentage of unsuccessful applications	25%	20%	18%

NRF Focus Area Grants: Details of new awards

## Postgraduate Student Support

- In 2005, 3 516 awards to a total value of R59 676 730 were offered to honours, master's and doctoral students. The main categories of award are highlighted in the table below.

Source of funds	Number of awards	Total value of awards
Research Councils (NRF and MRC)	761	R 18 973 350
University central funds (GOB)	974	R 8 495 659
Income from donated funds	1281	R 29 660 517
Income from university investments	374	R 1 779 454
Miscellaneous & prizes (December scholarships)	126	R 767 750
<b>Total</b>	<b>3 516</b>	<b>R 59 676 730</b>

Source of funds to postgraduate students

Faculty	No. of H, M & D students	No. of awards offered *	%
COM	887	224	25
EBE	692	590	85
HSF	1105	645	58
HUM	1210	928	77
LAW	293	39	13
SCI	917	1 090	119
<b>Total</b>	<b>5 104</b>	<b>3 516</b>	<b>69</b>

Awards per faculty

- In 2005, postdoctoral researchers were hosted by various departments at UCT, and 161 fellowships were offered to 130 postdoctoral researchers, to a total value of R12 759 627. Support for postdoctoral research is sourced from the NRF, the Medical Research Council (MRC), URC funds and income from donations and investments.

Source of Funds (Fellowships)	Total	Total R
Harry Crossley Foundation	1	50 000
University Research Committee	13	1 410 000
Travel	7	48 924
Smuts Trust	1	100 000
Science Faculty	35	2 725 745
National Research Foundation	32	2 081 071
Engineering & the Built Environment Faculty	8	422 000
Medical Research Council	15	1 435 000
AW Mellon	1	120 000
Claude Harris Leon Foundation	14	1 266 00
Health Sciences Faculty	34	3 100 387
<b>Total</b>	<b>161</b>	<b>12 759 627</b>

Source of funds for postdoctoral fellowships

Faculty	Number of PDRFs
COM	0
EBE	13
HSF	46
HUM	3
LAW	1
SCI	53
<b>Total</b>	<b>116</b>

Fellowships by faculty

## NRF Rating

- The total number of NRF-rated researchers increased across most rating categories, and is reflected in the table below.

	Rating categories						
	A	B	C	P	Y	L	TOTAL
2003	16	73	105	3	13	4	<b>214</b>
2004	18	75	115	4	15	5	<b>232</b>
2005	21	86	121	7	17	3	<b>255</b>

Summary of NRF-rated researchers at UCT

\* In this process, awards are offered to students or postdocs, but it does not necessarily mean that they were accepted. If an award is offered to a student and not accepted (and eventually cancelled) and the money reallocated, it does not negate the fact that the first offer of award was made.



## Postgraduate student graduations

The table below reflects the number of postgraduate degrees awarded per faculty.

Faculty	2003 M	2004 M	2005 M	2003 PhD	2004 PhD	2005 PhD	2003 Total	2004 Total	2005 Total
CHED**	0	0	0	0	0	0	0	0	0
COM	176	138	156	7	5	5	183	143	161
EBE	99	90	93	9	14	12	108	104	105
HSF	47	68	48	28	20	26	75	88	74
HUM	140	131	126	19	22	44	159	153	170
LAW	81	97	100	2	2	1	83	99	101
SCI	83	116	125	37	32	36	120	148	161
<b>TOTAL</b>	<b>626</b>	<b>640</b>	<b>648</b>	<b>102</b>	<b>95</b>	<b>124</b>	<b>728</b>	<b>735</b>	<b>772</b>

Number of degrees awarded per faculty: 2003 -2005

## Publication Count

- In 2005, UCT implemented the new Department of Education (DoE) policy for outputs published in 2004, where accreditation is now based on three new sets of journal lists: the IBSS (International Bibliography of the Social Sciences), the new list of South African journals and the three indices of the ISI (Institute for Scientific Information), namely the Science Citation Index, the Social Sciences Citation Index and the Arts and Humanities Citation Index. The old SAPSE list is no longer in use.
- UCT's final allocation of 756.69 units for the 2004 academic year was 34% higher than the previous allocation of 563.71 units. This increase may be partially attributed to the use of the new lists discussed above. The overall total comprises accredited journals (672.80 units), books and chapter in books (43.58 units) and peer-reviewed conference proceedings (40.31 units).

Name of Institution	Books	Proceedings	Journals	Total	Rank
<b>Cape Town</b>	43.58	40.31	672.80	756.69	4
<b>KwaZulu-Natal</b>	24.41	49.68	642.26	716.35	5
<b>Pretoria</b>	16.11	49.10	996.77	1061.98	1
<b>Stellenbosch</b>	28.32	39.41	782.26	849.99	2
<b>Witwatersrand</b>	40.31	24.71	726.60	791.62	3

Breakdown of total research output units for SA HEIs: 2004 data (top five institutions)

## Quality assurance audit by the HEQC

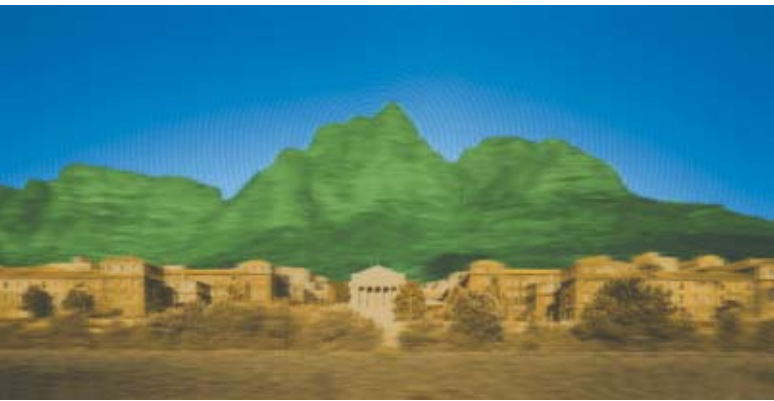
- Overall, the Higher Education Quality Committee report on the audit reflects favourably on the research sector. A number of recommendations and commendations ensued. An improvement plan based on the recommendations will be developed for implementation in the course of 2006.

## Review of URC-accredited research groupings

- Twenty-one groupings have been reviewed since the process began in 2003, with a further 12 scheduled for review in 2006. Review panels include the participation of external experts from the relevant fields.

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The aim of this report is to provide an overview of the research-related activities in 2005. The report covers achievements to date; it assesses performance in terms of UCT's aspiration to be research-led, and identifies key issues to be addressed. The following areas were highlighted in the 2005 report:



## Strategic Initiatives

- A framework for signature themes was approved by the Senate Executive Committee (SEC) in December 2004. A model that builds on existing research strength, as well as a developmental model, has been adopted to optimise existing excellence and grow capacity in areas of prioritised need. In April 2005 the first call for signature themes – areas of research that are considered critical for a number of reasons – was announced, followed by a review process that involved external and internal reviewers. In November 2005, the Marine Research Partnership and the Brain-Behaviour Initiative were subsequently approved by the University Research Committee (URC) and the SEC as the first two UCT Signature Themes.
- A new Memorandum of Understanding was signed with the University of St Andrews, Scotland. The aim is to collaborate in selected areas that are well positioned in relation to the objectives of both the European Union and the New Partnership for Africa's Development (NEPAD).

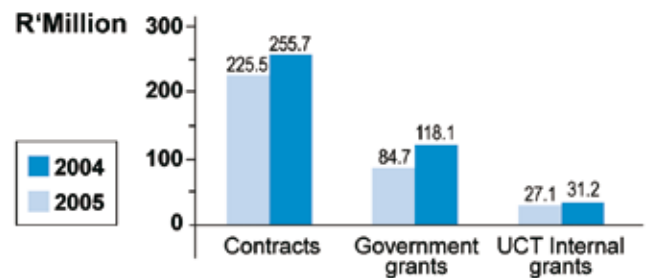
## Framework for Research Development: The Emerging Researcher Programme (ERP)

2005 FACULTY REPRESENTATION OF ERP PARTICIPANTS							
CHED	COM	EBE	HSF	HUM	LAW	SCI	Total
22	17	27	28	32	11	25	172

- The number of signed-up participants in the ERP grew from 102 in 2004 to 172 in 2005.
- A postgraduate supervision training programme was piloted during the first semester, to enhance supervisory capacity and build confidence in those required to supervise.

## Research Income

- Total research income increased by 20% in 2005 to R405m.



UCT Research income: 2004 vs 2005

- The monetary value of the contracts approved over the past three years shows a steady growth of approximately 6% per annum. A quarter (169) of the contracts approved in 2005 were 'no-value' contracts (non-disclosure, confidentiality, material transfer and extensions), which represented a 5% increase on 2004.

Faculty	2003		2004		2005	
	#	R/mil	#	R/mil	#	R/mil
CHED			5	0.98	5	0.75
COM	34	9.37	41	12.92	31	19.80
EBE	205	39.6	192	49.55	214	32.69
HSF	194	110.45	201	104.3	231	103.2
HUM	21	14.36	24	7.75	24	7.68
LAW	16	6.2	9	0.82	18	4.92
SCI	133	21.08	141	37.56	139	55.52
<b>Total</b>	<b>603</b>	<b>201.06</b>	<b>613</b>	<b>213.88</b>	<b>662</b>	<b>224.56</b>

Number and value of contracts processed (as logged on University Office)

- Funding from the National Research Foundation (NRF) is a major source of support for UCT researchers. At the end of 2005, UCT had a total of 192 NRF grantholders across a variety of funding categories, holding 297 grants with a value in excess of R51m.