

## UJ Research

RESEARCH IS ONE OF THE CORNERSTONES OF THE UNIVERSITY OF JOHANNESBURG (UJ). UJ AIMS TO INCREASE ITS STATURE AND REPUTATION THROUGH THE QUALITY, INTEGRITY AND IMPACT OF ITS RESEARCH ENDEAVORS, PARTICULARLY AS IT ENGAGES WITH ISSUES PERTINENT TO THE PAN-AFRICAN CONTEXT AND GLOBALLY.



### NRF RESEARCHERS



130

NATIONAL RESEARCH  
FOUNDATION (NRF)  
RATED RESEARCHERS

2014

### RESEARCHERS



751

ACTIVE  
RESEARCHERS  
AT UJ

2013

### TOP 5 RESEARCH AREAS

- Social Science
- Physics and Astronomy
- Engineering
- Chemistry
- Material Science

2014

### LITERATURE

70%

OF JOURNAL ARTICLES  
WERE PUBLISHED IN THE  
INFORMATION SCIENCES  
INSTITUTE (ISI) AND  
INTERNATIONAL  
BIBLIOGRAPHY OF THE  
SOCIAL SCIENCES (IBSS)  
PUBLICATIONS

2013

### INVESTMENT

By 2016, UJ will have  
invested R30 million in:

- Chemistry of  
Functionalised Materials  
for Medical and  
Industrial Applications
- Physics of Materials  
Under Extreme  
Conditions
- Telecommunications

R30M

## South African Research Chairs Initiative (SARCHi)

SARCHi AIMS TO STRENGTHEN SCIENTIFIC LEADERSHIP AND RESEARCH CAPACITY IN SOUTH AFRICAN UNIVERSITIES SUPPORTING WORLD CLASS SCHOLARS WHO ARE THE FOCUS OF ADVANCED RESEARCH.



### SARCHi CHAIRS

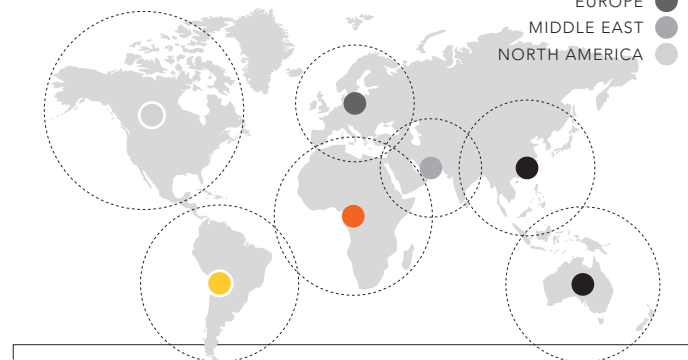
- African Diplomacy and  
Foreign Policy  
FACULTY OF HUMANITIES
- Education and Care  
in Childhood  
FACULTY OF EDUCATION
- Geometallurgy  
FACULTY OF SCIENCE
- International Law  
FACULTY OF LAW
- Indigenous Plant Use  
FACULTY OF SCIENCE
- Nanotechnology for Water  
FACULTY OF SCIENCE
- Social Change  
FACULTY OF HUMANITIES

## Partnerships

UJ BUILDS ENDURING NATIONAL AND INTERNATIONAL PARTNERSHIPS WITH VARIOUS NATIONAL, PRIVATE AND PUBLIC INSTITUTIONS WITHIN THE AFRICAN CONTINENT AND THE REST OF THE GLOBE.



### NATIONAL, PRIVATE AND PUBLIC INSTITUTIONAL PARTNERSHIPS



OVER THE NEXT SIX YEARS, UJ IS INVESTING MORE THAN **R600M** TO ESTABLISH ONE CENTRE OF EXCELLENCE AND FIVE FLAGSHIP RESEARCH INSTITUTES.

### CIMERA

The DST-NRF Centre of Excellence for Mineral and Energy Resource Analysis (CIMERA) embraces an integrated understanding of the nature of some of the major and minor mineral and fossil energy resources of South Africa and their geometallurgical characteristics to ensure sustainable extraction of resources while preventing and solving environmental impact.

### NEW FLAGSHIP INSTITUTES

- THE INSTITUTE OF  
NANOTECHNOLOGY AND WATER
- THE INSTITUTE OF SUSTAINABILITY  
MANAGEMENT AND MEGACITIES
- THE INSTITUTE OF PAN-AFRICAN  
POLITICAL THOUGHT AND  
CONVERSATION
- THE INSTITUTE OF PROCESS  
AUTOMATION
- THE JOHANNESBURG INSTITUTE  
FOR ADVANCED STUDY

QS UNIVERSITY  
RANKINGS BRICS

TOP 6  
IN SA

2014/2015



Performance

IN 2013, UJ RANKED AMONG THE TOP SIX RESIDENTIAL UNIVERSITIES IN TERMS OF ACCREDITED RESEARCH OUTPUTS, WITH A NOBLE AMOUNT OF ACTIVE RESEARCHERS, RESEARCH IMPACT CITATIONS AND NRF-RATED RESEARCHERS WORLDWIDE.

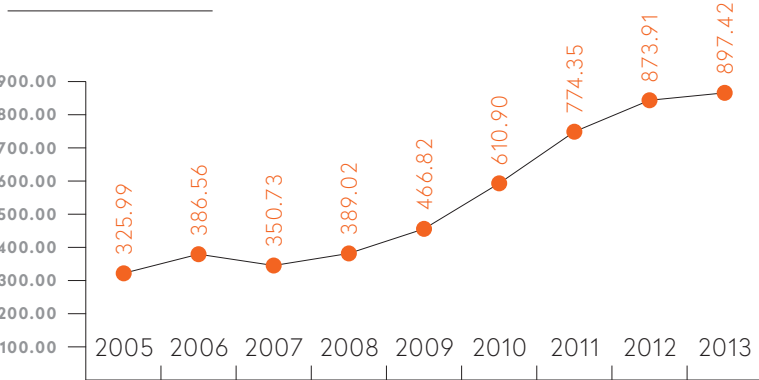


2013 NATIONAL RESEARCH OUTPUTS CONTRIBUTIONS



SOUTH AFRICA

GROWTH IN TOTAL DHET RESEARCH UNITS AWARDED



FELLOWSHIPS



134

POSTDOCTORAL RESEARCH FELLOWSHIPS

2015

SUSTAINABILITY KEY FOCUS AREAS

- Financial Resources Management
- Environmental Stewardship
- Partnerships
- Stakeholder Engagement
- Health and Safety in labs
- Human Capacity Development

Centres

SEVERAL OF THE RESEARCH CENTRES ARE WITHIN FACULTIES AND OTHERS ARE STAND-ALONE ENTITIES



FACULTY OF ART, DESIGN AND ARCHITECTURE (FADA)

1 VISUAL IDENTITIES IN ART AND DESIGN (VIAD)

FACULTY OF EDUCATION

2 CENTRE FOR EDUCATION RIGHTS AND TRANSFORMATION (CERT)

3 CENTRE FOR EDUCATION PRACTICE RESEARCH (CEPR)

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT (FEBE)

4 HYPERVISION RESEARCH GROUP (HYPERVISION)

5 CENTRE FOR TELECOMMUNICATIONS (CFT)

6 MINERAL PROCESSING AND TECHNOLOGY RESEARCH CENTRE (MPTRC)

7 COMPOSITE MATERIALS RESEARCH GROUP (COMPOSITES)

8 PHOTONICS RESEARCH GROUP (PRG)

9 SUSTAINABLE ENERGY TECHNOLOGY AND RESEARCH CENTRE (SETAR)

FACULTY OF ECONOMIC AND FINANCIAL SCIENCES (FEFS)

10 SOUTH AFRICAN ACCOUNTING HISTORY CENTRE (SAAHC)

FACULTY OF HUMANITIES

11 CENTRE FOR THE STUDY OF DEMOCRACY (CSD)

12 CENTRE FOR SOCIAL DEVELOPMENT IN AFRICA (CSDA)

13 CENTRE FOR ANTHROPOLOGICAL RESEARCH

14 CENTRE FOR SOCIOLOGICAL RESEARCH

FACULTY OF HEALTH SCIENCES

15 LASER RESEARCH CENTRE (LRC)

16 WATER AND HEALTH RESEARCH CENTRE (WHRC)

FACULTY OF LAW

17 SOUTH AFRICAN INSTITUTE FOR ADVANCED CONSTITUTIONAL, PUBLIC, HUMAN RIGHTS AND INTERNATIONAL LAW (SAIFAC)

FACULTY OF MANAGEMENT

18 INSTITUTE OF TRANSPORT AND LOGISTICS STUDIES (AFRICA) (ITLS)

19 CENTRE FOR INFORMATION AND KNOWLEDGE MANAGEMENT (CIKM)

20 CENTRE FOR WORK PERFORMANCE (CWP)

FACULTY OF SCIENCE

21 AFRICAN CENTRE FOR DNA BARCODING (ACDB)

22 RESEARCH CENTRE IN SYNTHESIS AND CATALYSIS (RCSC)

23 PALEOPROTEROZOIC MINERALIZATION RESEARCH CENTRE (PPM)

24 CENTRE FOR NANOMATERIALS SCIENCE IN RESEARCH (CNSR)

Researchers



PROF BILL HARRIS

Key areas of expertise:

- Physics
- Biophysics
- Vision metrology
- Optics
- Biostatistics
- Biometrics

A2



PROF HENDRIK FERREIRA

Key areas of expertise:

- Information theory
- Digital Communications
- Powerline Communications
- Channel Coding

A2



PROF NIC BEUKES

Key areas of expertise:

- Economic geology
- Sedimentology
- Sedimentary geochemistry
- Sequence stratigraphy

A1



PROF MICHAEL HENNING

Key areas of expertise:

- Combinatorics
- Graph theory

A1



PROF THADDEUS METZ

Key areas of expertise:

- Ethics
- Political philosophy

A2



PROF JOHN MAINA

Key areas of expertise:

- Respiration

A2

NRF RATINGS