

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.



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

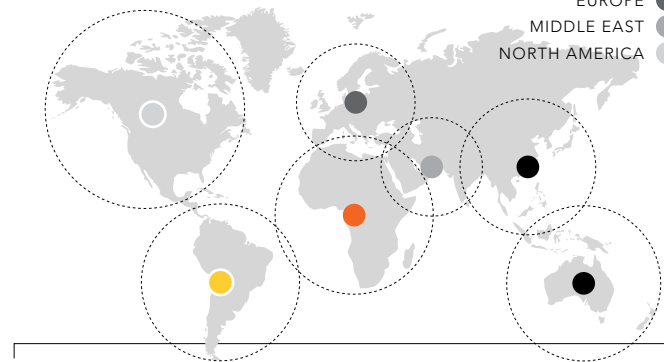
- African Diplomacy and Foreign Policy
FACULTY OF HUMANITIES
- Education and Care in Childhood
FACULTY OF EDUCATION
- Geometallurgy
FACULTY OF SCIENCE
- International Law
FACULTY OF LAW
- Indigenous Plant Use
FACULTY OF SCIENCE
- Nanotechnology for Water
FACULTY OF SCIENCE
- Social Change
FACULTY OF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



QS UNIVERSITY RANKINGS BRICS

TOP 6 IN SA

2014/2015

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

R30M

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

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

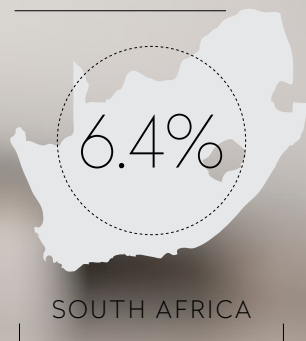
- THE INSTITUTE OF NANOTECHNOLOGY AND WATER
- THE INSTITUTE OF SUSTAINABILITY MANAGEMENT AND MEGACITIES
- THE INSTITUTE OF PAN-AFRICAN POLITICAL THOUGHT AND CONVERSATION
- THE INSTITUTE OF PROCESS AUTOMATION
- THE JOHANNESBURG INSTITUTE FOR ADVANCED STUDY

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



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

NRF RATINGS



Key areas of expertise:

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

A2



Key areas of expertise:

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

A2



Key areas of expertise:

- Economic geology
- Sedimentology
- Sedimentary geochemistry
- Sequence stratigraphy

A1



Key areas of expertise:

- Combinatorics
- Graph theory

A1



Key areas of expertise:

- Ethics
- Political philosophy

A2

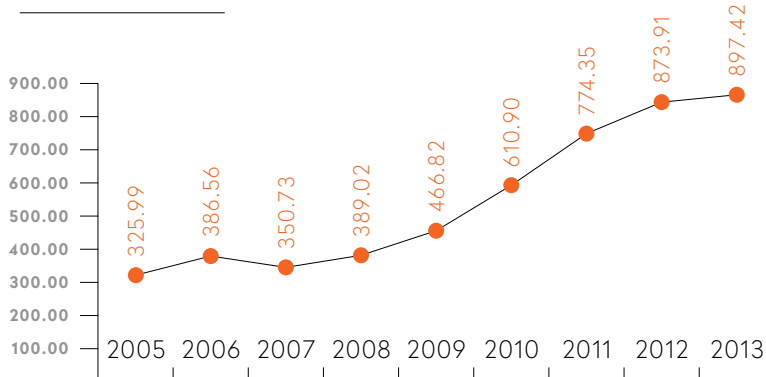


Key areas of expertise:

- Respiration

A2

GROWTH IN TOTAL DHET RESEARCH UNITS AWARDED



FELLOWSHIPS



SUSTAINABILITY KEY FOCUS AREAS

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

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