national e-science postgraduate teaching and training platform

science & innovation
Department: Science and Innovation
REPUBLIC OF SOUTH AFRICA

NICIS
NATIONAL INTEGRATED CYBERINFRASTRUCTURE SYSTEM

APPLY BEFORE 31 OCTOBER 2022

Master of Science by Coursework and Research Report in the field of e-Science

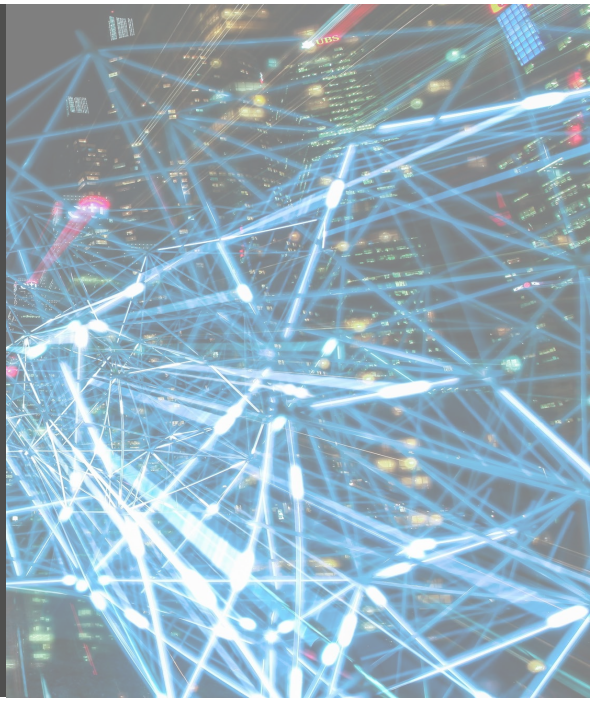
The National e-Science Postgraduate Teaching & Training Platform (NEPTTP)

Are you interested in big data, data analytics or data science?

Apply to join this prestigious national programme in an exciting, cutting-edge field!

This Masters programme offered by the National e-Science Postgraduate Teaching and Training Platform (NEPTTP) trains postgraduate students from diverse backgrounds in sciences, engineering and health sciences in computational methods to solve data-driven problems.

Students register with their Home Institution, but attend courses at Wits University, Johannesburg, in their first year. On completion of the coursework, students return to their Home Institutions for the second year of study: a research report in Data Science.



ENTRY REQUIREMENTS

Applicants are required to have a Bachelor with Honours degree (NQF level 8 qualification) from a relevant discipline in Science or Engineering with demonstrable knowledge of basic principles of computing, mathematics, and statistics. Applicants require a minimum of 65 percent in their NQF level 8 qualification, must fulfil any additional application requirements of the institution through which they are applying, and must be co-approved by the Consortium.

For more information

DEGREE INFORMATION

The Masters programme extends over twenty-four months of full-time study. The first year of the programme comprises taught modules. The second year involves a cross-disciplinary data-driven project, either from the home university or an industry partner. A candidate must successfully complete the required modules and the research report to obtain the degree.

Coursework Modules (Year 1)

2 Compulsory Courses

- Research Methods and Capstone Project in Data Science
- Data Privacy and Ethics

Elective Courses (choose 4)

- Adaptive Computation and Machine Learning
- Data Visualisation and Exploration
- Large Scale Computing Systems and Scientific Programming
- Large Scale Optimisation for Data Science
- Mathematical Foundations of Data Science
- Statistical Foundations of Data Science
- Special Topics in Data Science

*** Not all elective courses will be offered in every year

Research Report (Year 2)

- Research Report: Data Science

FUNDING

Competitive DSI-NICIS Masters bursaries (covering tuition, accommodation and stipend) are made available to qualifying students with a record of excellent academic achievement. Priority for bursaries is given to South African Citizens and Permanent Residents.

APPLICATIONS

Applicants are advised to apply no later than **31 October** to ensure full consideration. For more information, see: www.escience.ac.za. For any additional queries, please contact us.

CAREERS

Graduates of the programme have taken up a wide range of data-oriented roles within academic institutions, technology and healthcare companies, and the finance sector.

CONTACT US:

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