



## **NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**The University seeks to recruit applicants with requisite qualifications, skills and experience for the following posts in the Faculty of Applied Science: -**

### **1. LECTURESHIP/SENIOR LECTURESHIP/ASSOCIATE PROFESSORSHIP (7 POSTS)**

*Department of Applied Biology and Biochemistry*

#### **POST A: FOOD SCIENCE (1 POST)**

Applicants should be holders of BSc (Honours) or B Tech (Honours) with relevant content for the post and an MSc/MPhil Food Science and / or Technology. The candidate should have at least 2 year's work experience in an institution of higher education or a research institution. Experience in the assessment of students and supervision of research projects in area of specialisation as well as curriculum development will be an added advantage. A PhD or a registration for a PhD in the relevant field will be an added advantage.

The candidate will be expected to be involved in teaching and practical training of undergraduate and postgraduate students in areas of Food Chemistry, Fermentation Technology, and Food Microbiology. Supervision of research projects in the area of specialisation will be expected.

#### **POST B: BIOTECHNOLOGY (2 POSTS)**

Applicants should be holders of BSc (Honours) or B Tech (Honours) with relevant content for the post and an MSc/MPhil in Biotechnology. The candidate should have at least 2 year's work experience in an institution of higher education or a research institution. Experience in the assessment of students and supervision of research projects in area of specialisation as well as curriculum development will be an added advantage. A PhD or a registration for a PhD in the relevant field will be an added advantage.

The candidate will be expected to be involved in teaching and practical training of undergraduate and postgraduate students in areas of Recombinant DNA Technology, Analytical Biotechnology, Molecular Systematic and any Biotechnology related course. Supervision of research projects in the area of specialisation will be expected.

#### **POST C: BIOCHEMISTRY (2 POSTS)**

Applicants should be holders of BSc (Honours) or B Tech (Honours) with relevant content for the post and an MSc/MPhil in Biochemistry. The candidate should have at least 2 year's work experience in an institution of higher education or a research institution. Experience in the assessment of students and supervision of research projects in area of specialisation as well as

curriculum development will be an added advantage. A PhD or a registration for a PhD in the relevant field will be an added advantage.

The candidate will be expected to be involved in teaching and practical training of undergraduate and postgraduate students in areas of Chemistry of Biomolecules, Analytical Biochemistry, Metabolic Processes and Enzymology. Supervision of research projects in the area of specialisation will be expected.

#### **POST D: MICROBIOLOGY (2 POSTS)**

Applicants should be holders of BSc (Honours) or B Tech (Honours) with relevant content for the post and an MSc/MPhil in Microbiology. The candidate should have at least 2 year's work experience in an institution of higher education or a research institution. Experience in the assessment of students and supervision of research projects in area of specialisation as well as curriculum development will be an added advantage. A PhD or a registration for a PhD in the relevant field will be an added advantage.

The candidate will be expected to be involved in teaching and practical training of undergraduate and postgraduate students in areas of General Microbiology, Principles of Microbiology, Advanced Applied Microbiology and Environmental Microbiology. Supervision of research projects in the area of specialisation will be expected.

#### **2. LECTURESHIP/SENIOR LECTURESHIP/ASSOCIATE PROFESSORSHIP (1 POST)**

*Department of Applied Chemistry*

Applicants should be holders of a PhD in Analytical Chemistry and be experienced in teaching Analytical Chemistry at both Undergraduate and Master's Level, preferably with experience in Laboratory Management and Quality Assurance and or Chemical Sensors and Biosensors.

The successful candidates will be expected to develop research and publication record within their area of specialisation. Knowledge of Computational Chemistry will also be an added advantage.

#### **3. LECTURESHIP/SENIOR LECTURESHIP/ASSOCIATE PROFESSORSHIP (4 POSTS)**

*Department of Applied Mathematics*

#### **POST A: PURE /APPLIED MATHEMATICS (2 POSTS)**

Applicants must have a minimum qualification of an MSc Degree in Pure/Mathematics with a track record of publication in Pure/Applied Mathematics. Holding or being currently registered for a PhD in Mathematics/Applied Mathematics is an added advantage. Applicants must have research interests in Pure or Applied Mathematics. The successful candidate will be expected to teach on a wide variety of courses on the BSc (Honours) in Applied Mathematics Programme and the MSc in Applied Mathematical Modelling Programme. Preference will be given to candidates who can teach any of the following courses; Continuum Mechanics, Stochastic Differential Equations and Functional Analysis at Master's Level.

**POST B: MATHEMATICS/APPLIED MATHEMATICS/ APPLIED MATHEMATICAL  
MODELLING/FINANCIAL MATHEMATICS (2 POSTS)**

Applicants must have a minimum qualification of an MSc in Mathematics/ Applied Mathematics/ Applied Mathematical Modelling/ Financial Mathematics with a track record of publication in Pure/ Applied Mathematics. Holding or being currently registered for a PhD in Mathematics/Applied Mathematics is an added advantage. Applicants must have research interests in pure or Applied Mathematics. The successful candidate will be expected to teach on a wide variety of courses on the BSc (Honours) in Applied Mathematics Programme and the MSc in Applied Mathematical Modelling Programme. Preference will be given to candidates who can teach any of the following courses; Forecasting, Mathematical Modelling and Industrial Statistics at Master's level.

**4. LECTURESHIP/SENIOR LECTURESHIP/ASSOCIATE PROFESSORSHIP (10 POSTS)**

*Department of Statistics and Operations Research*

Applicants must have a minimum qualification of a good Bachelor of Science Honours Degree in Operations Research and Statistics/Operations Research/Statistics/Mathematics/Applied Mathematics.

The applicants must have a minimum of a Master of Science Degree in Operations Research and Statistics/Statistics/Operations Research. Having a PhD or studying towards one in the above disciplines will be an added advantage.

The job responsibilities include research and innovation in operations research and Statistics. They would be expected to teach courses in Operations Research areas such as Linear Programming, Integer Programming, Global Optimisation and Decision Theory. They would also be expected to teach courses in Statistics areas such as Probability Theory, Design and Analysis, Time Series Analysis, Survey Methods, Stochastic Processes, Simulation, Queueing Theory, Multivariate Analysis and Statistical Quality Control at Undergraduate level.

In addition, the job responsibilities include teaching at post-graduate level courses such as Financial Modelling, Stochastic Modelling, Simulation Modelling and Forecasting. They are also expected to have an interest in directing student research at undergraduate and post-graduate levels.

**5. LECTURESHIP/SENIOR LECTURESHIP/ASSOCIATE PROFESSORSHIP (2 POSTS)**

*Department of Radiography*

Applicants must hold a minimum qualification of a Master's Degree in Radiography. A higher qualification in any of the following disciplines: Computed Tomography; Magnetic Resonance Imaging; Radionuclide Imaging and or proof of active research in the form of published papers shall be a definite advantage.

The successful applicant is expected to be conversant with the basic Radiography taught to undergraduates at First and Second year levels at NUST. He/she shall therefore be expected to teach basic undergraduate courses as well as elective courses at the Fourth year level in his/her area of specialisation. In addition, he/she will be expected to assist on the MSc Programmes in the Department of Radiography. The successful candidate should be keen to do research with minimum resources in his/her area of interest, solicit and attract funding in research.

## **6. LECTURESHIP/SENIOR LECTURESHIP/ASSOCIATE PROFESSORSHIP (15 POSTS)**

*Department of Environmental Science and Health*

### **POST A: SOCIAL AND BEHAVIOURAL SCIENTIST (1 POST)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: HIV and AIDS Management, Sociology as well as Social Psychology. Holders of a relevant Master's Degree may be considered for the post.

### **POST B: EPIDEMIOLOGISTS (2 POSTS)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Health Promotion, Disease Prevention and Control, Epidemiology and Biostatistics, Emergency Preparedness and Response Planning in Health as well as Maternal and Child Health. Holders of a relevant Master's Degree may be considered for the post.

### **POST C: FOOD SPECIALIST (1 POST)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Port Health, Meat Hygiene and Technology as well as Food Safety Management. Holders of a relevant Master's Degree may be considered for the post.

### **POST D: HEALTH SYSTEMS AND POLICY SPECIALIST (1 POST)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Global Health, Indigenous Knowledge Systems and Health, Public Health Administration, Health Systems and Policies, Health Systems Management as well as Housing and Health. Holders of a relevant Master's Degree may be considered for the post.

### **POST E: ENVIRONMENTALISTS (2 POSTS)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Pollution and its Control, Environmental Economics, Solid and Hazardous Waste Management, Toxicology, Environmental Management Systems, Environmental Protection and Health as well as Environmental Engineering. Holders of a relevant Master's Degree may be considered for the post.

### **POST F: CLIMATE CHANGE SPECIALISTS (2 POSTS)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Key concepts of Climate Change and Sustainable development, Transdisciplinary thinking and skills, Climate change and social justice, Mitigation and adaptation in theory and practice, Agriculture, Food security and climate change, Climate Change and Health, Climate change and ecosystems services, Climate change and resilient urban development, Indigenous knowledge and climate change as well as Climate and Environmental Change. Holders of a relevant Master's Degree may be considered for the post.

### **POST G: SPATIAL ANALYST (1 POST)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Geographical Information Systems (GIS), Remote Sensing (RS) and its

applications to the different key thematic areas that are taught in the Department. Holders of a relevant Master's Degree may be considered for the post.

#### **POST H: VETERINARY PUBLIC HEALTH SPECIALISTS (2 POSTS)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Anatomy and Physiology of Animals, Veterinary Lab Technology, Animal Production, Veterinary Parasitology as well as Food Technology and Quality Assurance in veterinary products. Holders of a relevant Master's Degree may be considered for the post.

#### **POST I: BIOLOGIST (1 POST)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Parasitology as well as Microbiology and its applications to the different key thematic areas that are taught in the department. Holders of a relevant Master's Degree may be considered for the post.

#### **POST J: OCCUPATIONAL HEALTH AND SAFETY SPECIALIST (1 POST)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Safety, Health and the Environment, Health and Safety, Occupational Hygiene, Occupational Health and Safety as well as Emergency Preparedness and Response Planning at the workplaces. Holders of a relevant Master's Degree may be considered for the post.

#### **POST K: INFORMATION MANAGEMENT SYSTEMS SPECIALIST (1 POST)**

Applicants must hold at least a relevant PhD Degree that will allow them to teach in the following areas of specialisation: Information Management Systems in Public Health. Holders of a relevant Master's Degree may be considered for the post.

### **7. LECTURESHIP/SENIOR LECTURESHIP/ASSOCIATE PROFESSORSHIP (2 POSTS)**

*Department of Computer Science*

#### **POST A: DATA ANALYTICS**

Applicants must hold a Master's Degree in Computer Science, Information Technology, Information Systems, or in any related field from a recognised university with at least 3 years experience in academia or industry. A Bachelor's Degree in Computer Science with at least a 2.2 pass is required. The successful applicant should be able to teach at least 2 of the following course: Machine Learning, Data Visualisation, Data Mining and Warehousing, Python or R Programming. A relevant PhD or evidence towards attaining one, the ability to promote entrepreneurship and business development and demonstration of effective academic leadership will be added advantages.

#### **POST B: DATABASE AND DISTRIBUTED SYSTEMS**

Applicants must hold a Master's Degree in Computer Science, Information Technology, Information Systems, or in any related field from a recognised university with at least 3 years experience in academia or industry. A Bachelor's Degree in Computer Science with at least a 2.2 pass is required. The successful applicant should be able to teach at least 2 of the following courses: Enterprise Architecture Programming, Enterprise Data Management and Object Oriented Programming. A relevant PhD or evidence towards attaining one, the ability to

promote entrepreneurship and business development and demonstration of effective leadership will be added advantages.

### **APPLICATION PROCEDURE**

All applications will be treated in strictest confidence. Applications, which should include a curriculum vitae (giving full personal particulars of applicant, including full names, place and date of birth, qualifications, employment and experience, present salary, telephone numbers and the names, addresses (including e-mail) and telephone numbers of three contactable referees) and copies of certificates must be addressed to:

The Senior Assistant Registrar (Academic)  
Human Resources Department  
National University of Science and Technology  
P O Box AC 939  
Ascot  
Bulawayo, ZIMBABWE

And e-mailed to: [recruitment@nust.ac.zw](mailto:recruitment@nust.ac.zw) in a **single pdf file** clearly indicating the position being applied for in the subject line.

**The National University of Science and Technology is an equal opportunities employer. In the interest of promoting gender parity, female candidates are encouraged to apply.**

*The closing date for receipt of applications is Friday 29 January, 2021*

**ONLY SHORTLISTED CANDIDATES WILL BE CONTACTED.**