Ref. No: CE.52/879/01/55   Date: 30/06/2022

EMPLOYMENT OPPORTUNITIES

The Nelson Mandela African Institution of Science and Technology (NM-AIST) in Arusha is one in a network of Pan-African Institutions of Science and Technology located across Sub-Saharan Africa (SSA). These institutions, which are the proud brainchild of the late Nelson Mandela, envision training and developing the next generation of African scientists and engineers with a view to impacting profoundly on the continent's development through the application of Science, Engineering and Technology and Innovation (SETI).

The NM-AIST, which is accredited by the Tanzania Commission for Universities (TCU) is being developed into a world-class research-intensive institution for postgraduate and post-docs studies and research in SETI.

The Nelson Mandela African Institution of Science &Technology (NM-AIST) invites applications from suitably qualified and competent Tanzanian to fill the following vacant posts:

1.   **LECTURER – (8 Posts)**

(a)   **Qualifications**
        Holder of a PhD in a specialized functional area, with a Masters' Degree in the relevant field with at least a GPA of 4.0 out of 5, and a Minimum GPA of 3.8 out of 5 or its equivalent in the First degree with Minimum scores of B+ in Relevant Subjects or its equivalent.

(b)   **Duties:**
   • Conducting lectures, tutorials, seminars and practical for Masters and PhD programmes.
   • Carrying out research and innovation activities in relevant field.
   • Mentoring junior staff in all relevant matters.
   • Participating in curriculum development
   • Participating in developing and managing of various Institutions' projects.
   • Carrying out community/outreach services
   • Supervising Masters and PhD student projects
   • Organize and participate in workshops, conferences and symposia.
   • Performing any other duty as may be assigned by the relevant authority at the University.

(c)   Area of Specialization:

The 8 posts mentioned above is in either of the following Schools and areas of specialization:

(i) **SCHOOL OF MATERIALS, ENERGY, WATER & ENVIRONMENTAL SCIENCES (MEWES);**

- **Sustainable Energy Science and Engineering** (Energy Engineering, Mechanical Engineering, Electrical Engineering, Electro-Mechanical Engineering, Chemical and Process Engineering, Renewable Energy Engineering) – **1 Post**

- **Hydrology and Water Resources Engineering** (Hydrology Water Resource and Engineering, Hydrogeology, or Groundwater Management, Irrigation Engineering, Environmental Geochemistry, Earth Sciences, Geophysics and Engineering, Hydrogeological Modelling) – **1 Post**

(ii) **SCHOOL OF COMPUTATIONAL AND COMMUNICATION SCIENCES& ENGINEERING (COCSE);**

- **Electronics Engineering/Embedded Systems** (Embedded Systems, Electronics Engineering, Computer Engineering, Electronics Engineering)- **1 Post.**

- **Applied Mathematics** -Financial mathematics, statistics & stochastical, optimization methods, mathematical modelling, biomathematics. (Applied mathematics, statistics, financial mathematics, Fluids mechanics)- **1 Post.**

(iii) **SCHOOL OF LIFE SCIENCES AND BIO-ENGINEERING (LISBE);**

- **Biomedical Engineering**-Nano science, medical engineering, industrial **Pharmacy** (Biochemistry & Molecular Biology, Organic/Physical Chemistry/Analytical Chemistry/or Medicinal Chemistry, Pharmaceutical Sciences/Pharmaceutical Technology)-**2 Posts.**

(iv) **SCHOOL OF BUSINESS STUDIES AND HUMANITIES (BUSH).**

- **Management Sciences** -(Human resource management, Public administration, Information management, Project management)-**1 Post**

- **Finance/Accounting** (Accounts, Finance, Business, marketing)-**1Post**

(d) **Salary Scale:**   PUTS 3.3

2. ASSISTANT LECTURER – (67 Posts)

(a) Qualifications

Holder of a Master degree in a specialized functional area with at least a GPA of 4.0 out of 5 and Minimum GPA of 3.8 out of 5 or its equivalent in the First Degree with a Minimum score of B+ in the Relevant Subject or its equivalent.

(b) Duties:

(i) Assists Senior Academic Staff in practical, seminars and tutorials for Masters students

(ii) Working in co-operation with senior members on specific projects

(iii) Assisting in writing and preparation of teaching manuals and compendia.

(iv) Undertake research and innovation activities in relevant field.

(v) Performs any other Duties and Responsibilities as may be assigned by relevant authority.

(c) Areas of Specialization:

The 67 posts mentioned above are in either of the following Schools and areas of specialization:

(i) SCHOOL OF MATERIALS, ENERGY, WATER & ENVIRONMENTAL SCIENCES (MEWES);

- **Sustainable Energy Science and Engineering** (Energy Engineering, Mechanical Engineering, Electrical Engineering, Electro-Mechanical Engineering, Chemical and Process Engineering, Renewable Energy Engineering) – **4 Posts**

- **Hydrology and Water Resources Engineering** (Hydrology Water Resource and Engineering, Hydrogeology, or Groundwater Management, Irrigation Engineering, Environmental Geochemistry, Earth Sciences, Geophysics and Engineering, Hydrogeological Modelling, Water Supply and Sanitary Engineering) – **4 Posts**

- **Materials Science and Engineering** (Chemistry, Materials Science and Engineering, Petroleum Engineering, Nanotechnology Engineering, Mechanical Engineering, Chemical and Process Engineering, Electrical Engineering, Electronics Engineering, Civil Engineering, Industrial Engineering) – **4 Posts**

- **Health Physics and Radiation Protection** (Natural Sciences, Biological/Physical Sciences, Radiation Therapy Technology, Health Sciences, Applied Nuclear Physics, engineering; specifically, the appropriate fields will include Physics, Chemistry, Biology, Health, Radiology, Electrical, Mechanical or Chemical Engineering or related degrees/fields) – **4 Posts**

(ii) SCHOOL OF COMPUTATIONAL AND COMMUNICATION SCIENCES & ENGINEERING (COCSE);

- **Electronics Engineering/Embedded Systems** (Embedded Systems, Electronics Engineering, Computer Engineering) – **4 Posts.**

- **Pure or Applied Mathematics** - financial mathematics, statistics & stochastical, optimization methods, biomathematics. (Applied mathematics, statistics, financial mathematics, Fluids mechanics) - **4 Posts.**

- **Information and Network Security-Cyber Security.** (Computer science, IT Security, Information science, Information Systems; Information Technology, Informatics, Software Engineering; Computer Engineering- **4 Posts.**

- **Mobile Computing** (Computer science, IT Security, information science, Mobile Computing; Wireless Networks; Software Engineering; Computer Science, electronics and Computer Engineering, electronics and

telecommunication Engineering, Wireless and Mobile communication)–3 Posts.

- **Machine Learning** (Electronics and Electrical Engineering, Data science, machine learning, Computer Science) – **3 Posts.**

(iii) SCHOOL OF LIFE SCIENCES AND BIO-ENGINEERING (LISBE);
- **Biomedical Engineering**- (Nano science, medical engineering, industrial Pharmacy, Biochemistry & Molecular Biology, Organic/Physical, Chemistry/Analytical, Chemistry/Medicinal Chemistry, Pharmaceutical Sciences, Pharmaceutical Technology)- **2 Posts.**

- **Biodiversity** – (forestry, wildlife /ecology, Forestry, Wildlife Management, Ecology, Biodiversity, Life Sciences)-**2 Posts.**

- **Animal science** – (Breeding, range management and veterinary science. (Animal science/breeding, range management, and or veterinary medicine)- **2 Posts.**

- **Aquaculture** (Aquaculture, Aquatic sciences and Marine sciences) - **2 Posts.**

- **Plant Entomology** (Crop Science/Protection, Entomology) – **1 Post.**

- **Food Technology** (Food Sciences, Food Processing, Food Science and Technology, Food microbiology, and Food engineering) – **1 Post.**

- **Human Nutrition** (Human nutrition, Life sciences-human nutrition) – **2 Posts.**

- **Plant Breeding** – (Biotechnology/tissue culture, Crop Science/Improvement, Biotechnology, Genetics, Plant Breeding, Bioinformatics, Agriculture General, Agronomy, Horticulture, Agricultural sciences) – **2 Posts.**

- **Soil Science** (Soil Sciences, Soil Fertility, Soil and Land Management, Agriculture General, Agronomy, Horticulture, Agricultural sciences) - **1 Post.**

- **Microbiology** – (Animal/ plants, Plant/Animal Microbiology, Microbiology, Molecular Biology, One Health Molecular Biology) – **1 Post.**

- **Neural sciences** (Neural Sciences, Human and or Veterinary Medicine, Molecular biology) – **1 Post.**

(iv) SCHOOL OF BUSINESS STUDIES AND HUMANITIES (BUSH).
- **Marketing**- 2 Posts
- **Economics/Agricultural Economics** – 1 Post
- **Accounts/Finance**- 1 Post
- **Entrepreneurship Management**– 3 Posts
- **Regional Development** -1 Post
- **Social Sciences** (Sociology, Development studies and Philosophy) – **2 Posts**
- **Law** – (Intellectual Property, Commercial Law, Business Law) - **3 Posts.**
- **Management Science** – **3 Posts.**

(d)   Salary Scale: PUTS 2.1

3. LABORATORY SCIENTIST II (Assistant to Academicians) – (4 Posts)

(a) Qualifications

Holder of Bachelor Degree in Laboratory Science, Laboratory Technology or equivalent qualifications from recognized Institution.

(b) Areas of Specialization:
- Water- (Environmental laboratory science, Hydrology)- **2 Posts**
- Soil- (Agronomy) – **1 Post**
- Environmental – (Environmental science) – **1 Post**

(c) Duties:

(i) To assist in areas of student's practical/projects;

(ii) To assist in research and development activities;

(iii) To assist in consultancy activities;

(iv) To assist in maintenance of Laboratory facilities; and

(v) To perform any other Duties and Responsibilities an assigned by supervisor.

(d) Salary Scale: PUSS 4.1

4. COMPUTER TECHNOLOGIST II (Laboratory Engineer)-Assistant to Academicians- 4 Posts

(a) Qualifications

Holder of Bachelor Degree in Computer Science, Computer Engineering, Telecommunication Engineering, Information Communication Technology, Embedded Systems, Electronics, Software, Multimedia or equivalent qualifications from recognized Institution.

(b) Areas of specialization: -

Hardware-**1 Post**

Software-**2 Posts**

Graphic Design-**1 Post**

(c) Duties:

Hardware

(i) To install PCs and peripherals;

(ii) To provide technical support for PCs and related peripheral equipment;

(iii) Assist ICT Technician I in testing new or modified systems;

(iv) To document and communicate problems, solutions, and the implementation process to supervisor.

Software

(i) To store copies of software and documentations of computer systems;

(ii) To assist Technicians, in finding source documents and solutions for identified problems;

(iii) To maintain operations, system development and/or programming documentation manual libraries;

(iv) To performs archiving of official documents;
(v) To perform simple coding of raw data on source documents by applying established, clearly defined codes;
(vi) To verify keyed data; upload data to computer server;
(vii) To review production output for accuracy and validity by comparing the output data with the job request and systems documentation standards and procedures;
(viii) To assist programmers in testing new or revised application programs;
(ix) To validate (check, verify dates and times, etc.) input to and output from information systems;
(x) To advise programmers in problems related to data entry;
(xi) To maintain data processing systems, tape library and disk storage;
(xii) To monitor console for errors; observe elements of operation for evidence of incorrect operation;
(xiii) To separate and sort output for distribution; set up input job streams and submit jobs; schedule submission of work to the system;

Graphic Design
(i) To design graphics for promo, commercials and various programmes;
(ii) To edit video and audio materials for programmes; and
(iii) To perform any other related duties as may be assigned by Supervisor.

(d) **Salary Scale:** PUSS 4.1

5. LABORATORY TECHNICIAN II (Assistant to Academicians) – (4 Posts)

(a) Qualifications
Holder of Diploma in Laboratory Science, Laboratory Technology or equivalent qualifications from recognized Institution.

(b) Areas of specialization
- **Equipment -** (Electrical and Biomedical Engineering) – **2 Posts**
- **Water & soil -** (Water laboratory science or General laboratory)- **1 Post**
- **Biomedical** – (Medical/health laboratory Science) – **1 Post**

(c) Duties:
(i) To carry out detailed inspection of Laboratory equipment;
(ii) To prepare cost estimates for maintenance of Laboratory equipment;
(iii) To carry out regular preventive maintenance and repairs of Equipment;
(iv) To assist in students' projects and practical research and consultancy work;
(v) To assist in the repair and maintenance of laboratory or workshop facilities;
(vi) To assist Academic staff in relevant fields of operations;
(vii) To prepare inspection report;
(viii) To attend site meetings/site inspection and prepare inspection report;
(ix) To perform any other related duties as may be assigned by Supervisor.

(d) Salary Scale: PUSS 2.1

6. LIBRARY OFFICER II– (4 Posts)

(a) Qualifications

Holder of Bachelor Degree in Library and Information studies, Library Studies, Information Studies, Documentation, Information Management and Information studies or equivalent qualification from recognized institution.

(b) Duties:

(i) To register new library members and conducts regular checks;
(ii) To issue and receive books and periodicals to readers;
(iii) To handle enquiries from readers;
(iv) To administer Library records;
(v) To administer reference and readers services;
(vi) To assist readers in bibliographic searching;
(vii) To comply daily statistical data for borrowers of books and periodicals;
(viii) To participate in developing new library systems and procedures;
(ix) To identify materials to be ordered;
(x) To ensure proper shelving of books and periodicals;
(xi) To carry out cataloguing of books and periodicals;
(xii) To ensure proper use of library collections;
(xiii) To copy catalogues with Cataloguing in Publication (CIP) data; and
(xiv) To perform any other related duties as may be assigned by supervisor.

(c) Salary Scale: PGSS 6.1

7. GENERAL CONDITIONS

(i) All applicants must be Citizens of Tanzania with an age not above 45 years of age;
(ii) Applicants must attach an up-to-date Curriculum Vitae (CV) having reliable contacts; postal address/post code, e-mail and telephone numbers;
(iii) Applicants should apply on the strength of the information given in this advertisement;
(iv) Applicants must attach their certified copies of the following certificates: -
   ▪ PhD/Masters/Degree/Advanced Diploma/Diploma/Certificates;
   ▪ PhD/Masters/Degree/Advanced Diploma/Diploma transcripts;
   ▪ Form IV and Form VI National Examination Certificates;
   ▪ Professional Registration and Training Certificates from respective Registration or Regulatory Bodies, (where applicable);
   ▪ Birth certificate;
(v) Attaching copies of the following certificates is strictly not accepted: -
   ▪ Form IV and form VI results slips;
   ▪ Testimonials and all Partial transcripts;
(vi) An applicant must upload recent Passport Size Photo in the Recruitment Portal;

(vii) An applicant who is freeze from the Public Service for whatever reason should not apply;

(viii) An applicant should indicate three reputable referees with their reliable contacts;

(ix) Certificates from foreign examination bodies for Ordinary or Advanced level education should be verified by The National Examination Council of Tanzania (NECTA);

(x) Professional certificates from foreign Universities and other training institutions should be verified by The Tanzania Commission for Universities (TCU) and National Council for Technical Education (NACTE);

(xi) An applicant with special needs/case (disability) is advised to indicate;

(xii) Only shortlisted candidates will be informed on the date of interview and;

(xiii) Presentation of forged certificates and other information will necessitate legal action;

(xiv) The deadline for the submitting applications is Wednesday 13th July, 2022

(xv) A signed application letter should be written either in English and Addressed to:-

The Deputy Vice Chancellor (Planning, Finance& Administration),
Nelson Mandela African Institution of Science & Technology,
P.O. Box 447,
ARUSHA.

NOTE: *All applications must also sent through the Recruitment Portal through the following address; http://portal.ajira.go.tz/ and not otherwise (This address also can be found at the Public Service Recruitment Secretariat Website, Click 'Recruitment Portal')*

Released by

SECRETARY
PUBLIC SERVICE RECRUITMENT SECRETARIET