

**THE NELSON MANDELA  
AFRICAN INSTITUTION OF SCIENCE AND TECHNOLOGY  
(NM-AIST)**



**INVITATION FOR ADMISSION APPLICATIONS INTO  
MASTER'S PROGRAM IN EMBEDDED AND MOBILE SYSTEMS (EMoS)  
FOR  
2019/20 ACADEMIC YEAR**

**1.0. BACKGROUND**

The Nelson Mandela African Institution of Science and Technology (NM-AIST) in Arusha Tanzania, accredited by the Tanzania Commission for Universities (TCU), is being developed into a research-intensive institution for postgraduate and post-doctorate studies and research in Science, Engineering and Technology (SET). The goal of NM-AIST is to catalyze the development of SET through the production of highly qualified engineers and scientists by equipping them with a maximum technical, entrepreneurial and leadership capacities to solve African problems. More information on NM-AIST is available on the website: [www.nm-aist.ac.tz](http://www.nm-aist.ac.tz).

**2.0. PROGRAMME AND AREAS OF SPECIALIZATION**

The Nelson Mandela African Institution of Science and Technology (NM-AIST) has received support to establish a new regional Centre of Excellence for ICT in East Africa (CENIT@EA). CENIT@EA is initiated by the German Federal Ministry for Economic Cooperation and Development (BMZ) and the East African Community (EAC). Nelson Mandela African Institution of Science and Technology (NM-AIST) and the Inter University Council for East Africa (IUCEA) are the implementing partners on the East African side while the Carl von Ossietzky University of Oldenburg (UOL) and the German Academic Exchange Service (DAAD) are the partners on the German side. GIZ is the overall responsible implementing agency for the project.

CENIT@EA, hosted at the NM-AIST, is established by a consortium of institutions including University of Dar Es Salaam (UDSM), University of Technology and Arts of Byumba (UTAB), University of Oldenburg (UOL), Mannheim University of Applied Sciences (HSM), University of Applied Sciences in Berlin (HTW) and the German Aerospace Centre (DLR).

The partnership is therefore designed to host a new master’s programme in Embedded and Mobile Systems (EMoS). The CENIT@EA scholarships cover tuition fees applied at NM-AIST, subsistence allowance that include (accommodation and meal), financial assistance for studies and research as per NM-AIST fee structure. Self-funded/ third-party sponsored candidates are highly encouraged to apply.

**Table 1: Degree Programmes and Specializations**

<b>Degree Programme</b>	<b>Specialization</b>	<b>Prerequisite Degree Courses</b>
Masters of Science in Embedded and Mobile Systems (EMoS)	Embedded Systems	Mobile Computing; Wireless Networks; Software Engineering; Computer Science; Computer Engineering; Electronics Science and Engineering; Telecommunication Engineering; Electrical Engineering, Embedded systems, or related fields.
	Mobile System	

### **3.0. ENTRY REQUIREMENTS**

#### **3.1 Master’s Coursework and Project**

The Master’s of Science in Embedded and Mobile system is a master programme by coursework and project. This is a professional programme and a student will spend the first three semester’s doing coursework and one final semester in a pre-selected industry or NM-AIST laboratory to solve a pre-agreed problem of the industry or community. To be admitted into a Master's programme by coursework and project at the NM-AIST, the following requirements will be taken into consideration:

- (i) Possession of at least a second class Bachelor’s degree with at least a GPA of 3.0/5.0 or its equivalent or a Postgraduate diploma with at least a GPA of 4.0/5.0 or its equivalent. in an appropriate area of study from an accredited university or similar institution of higher learning and for an applicant holding unclassified degrees should have at least an overall of “C” grade and an average of “B” grade in the relevant subject or field of his/her specialization
- (ii) Working experience in related field of Embedded and or Mobile System will be added advantage.

#### **3.2. English Proficiency**

All applicants MUST possess adequate knowledge of written and spoken English which may be demonstrated in the following forms:

- (i) Successful completion of a Bachelor degree from a recognized university or similar institution of higher learning where English is the language of instruction or;
- (ii) Successful completion of a postgraduate degree programme at a recognized university or similar institution of higher learning where English is the language of instruction or;
- (iii) Submission of official results of Test of English as a Foreign Language (TOEFL) with a paper-based score of 550 (or higher), computer-based score of 213 (or higher) or Internet-based score of 80 (or higher).

### **3.3. Academic Transcripts and Certificates**

- (i) Candidates who have been awarded Bachelor's and/or Master's degrees at accredited universities or similar institutions of higher learning which issue academic documents in languages other than English shall submit notarized English translations of all supporting documentation including, but not limited to, transcripts, degrees, and diplomas.
- (ii) The academic levels or equivalence of the qualifications obtained from foreign institutions must be authenticated by the Tanzania Commission for Universities (TCU) before being registered for studies at NM-AIST. For the guidelines on how to authenticate foreign certificate(s) to TCU follow the following link: <http://faas.tcu.go.tz/login.php>. It is to be noted that an applicant can simultaneously apply for NM-AIT Admission and TCU foreign certificate authentication, but the student will only be registered after a successful TCU foreign certificate(s) authentication.

### **4.0. ADMISSION APPLICATION FEE**

Reference to the fee structure for 2019/20, application fees for Master's Students is 50,000 for Tanzanians and 25 USD for Non-Tanzanians.

### **5.0 APPLICATION INFORMATION AND INSTRUCTIONS**

- (i) All applicants must access, register and fill their application information through the Online Admission System (OAS) available on the website [www.nm-aist.ac.tz](http://www.nm-aist.ac.tz) or <https://oas.nm-aist.ac.tz:8443/noas/>.
- (ii) Applicants are required to read and understand all information and instructions.
- (iii) The following documents MUST be organized, processed in PDF file, uploaded and submitted through Online Admission System:
  - a) Certified copies of all academic transcripts and certificates;
  - b) Certified copies of Secondary Education Examinations;
  - c) Certified copy of birth certificate or evidence of National Identity;
  - d) Evidence of English Proficiency if the medium of communication in the preceding academic levels were not in English Language;

## **6.0 PAYMENT OF APPLICATION FEES**

All payment will be done by using control numbers which you will get direct from the online admission system (<https://oas.nm-aist.ac.tz:8443/noas/>) after login and filling personal information form. Please read payment instructions provided on payment form of the system.

## **7.0. DEADLINE OF APPLICATIONS**

All applications **MUST** be submitted not more than **30<sup>th</sup> October 2019** for students intending to commence studies on **13<sup>th</sup> January 2020**.

The applicants with admission letters and who are seeking for scholarships must submit a complete scholarships package as it will soon be announced through the Centre of Excellence for ICT in EA (CENIT@EA) website: <https://www.cenit-ea.org/scholarships/>.

For assistance or more inquiries on general admission applications write to [admission@nm-aist.ac.tz](mailto:admission@nm-aist.ac.tz) or call +255 628 183 676 during office hours. For information regarding international assistance such as TCU foreign degree awards certification, VISA or permits applications write to [international.office@nm-aist.ac.tz](mailto:international.office@nm-aist.ac.tz).