



## **THE AFRICAN CENTER FOR SUSTAINABLE CITIES STUDIES (ACS)**

### **Call for applications for MSc scholarships**

The African Center for Sustainable Cities Studies (ACS) is a research and training center established at Ardhi University (ARU) under the VLIR-UOS Institutional University Cooperation (IUC) programme in collaboration with Hasselt University (UHasselt) as a lead partner University in Belgium and other Flemish Universities including; Gent University, Antwerp University, Free University of Brussels, Busworld Academy and University of Applied Sciences and Arts. The collaboration includes other Tanzanian Institutions namely; Mzumbe University, University of Dar es Salaam, Nelson Mandela African Institution of Science and Technology (NM-AIST) and the National Institute of Transport. The vision of the ACS is to contribute towards attaining the world with inclusive, safe, resilient and sustainable cities and communities in accordance with SDG 11 and its mission is to advance research and education for sustainable cities development and to contribute in generating solutions to societal and environmental problems related to urban development.

The ACS in collaboration with partner universities announce several scholarship positions for Masters' degree studies in Belgium and in Tanzania for a duration of one to two years depending on the degree programme. The scholarship will cover tuition fees, relevant transport and insurance costs as well as upkeep allowances. Tanzanians with requisite qualifications are invited to apply for the scholarship positions. ACS operates under principles of the Agenda 2030 (Leaving No One Behind). Therefore, candidates from disadvantaged groups are encouraged to apply.

The General eligibility criteria;

- i. Be ARU employees or those with a potential of being employed by Ardhi University. Therefore, the applicants must have a GPA of at least 3.8 in undergraduate degrees,
- ii. Must have admission in a relevant Master's programme at a Flemish or a Tanzanian Institution as detailed in the thematic areas below: Applicants who can successfully secure admission to enroll in the 2022/2023 academic year will be considered for the first round of



- scholarships that will be offered in September 2022. Others are encouraged to apply for admission to be considered for scholarships during the second round that will be advertised and offered in 2023, and;
- iii. Strong written and oral communication skills in both English and Kiswahili languages

In addition:

- i. Applicants who are not ARU employees must be ready to be employed by ARU after completion of their studies should employment positions be available,
- ii. All applicants should be ready to sign an agreement with ARU before commencement of scholarship award, and;
- iii. Not older than 40 years of age at the time of admission.

The University invites applications for MSc scholarship consideration in seven (7) thematic areas as detailed below:

### **Thematic Area 1: Decent Housing**

#### Relevant Master's programme and description:

Two positions to be admitted into Masters' in Sustainable Energy Science and Engineering (SESE) and/or Masters' in Materials Science and Engineering (MaSE) programme at the Nelson Mandela African Institution of Science and Technology (NM-AIST). Candidates will follow course work of the relevant MSc programme and thereafter embark on research that will lead to a dissertation. The potential research areas during the research phase are:

- i. Briquettes as alternative renewable energy source (starts in year 1)
- ii. Sustainable building materials from waste (starts in year 2)

The research phase will be conducted at Ardhi University and jointly supervised by ARU and NM-AIST academic staff. The candidate will also receive a supervisory support from Flemish researchers under their respective research domains.

#### Eligibility criteria (Research area 1):



Candidate to be admitted under research area 1 are required to have a bachelor degree in Environmental Sciences, Environmental Engineering, Mechanical Engineering, Municipal and Industrial Services Engineering or related fields

*Additional Eligibility criteria:*

Knowledge on waste technology and ICT skills will be added advantage

Eligibility criteria (Research area 2):

Candidate to be admitted under research area 2 are required to have a bachelor degree in Materials Sciences, Civil Engineering, Environmental Engineering, Architecture, Construction Economics or related fields

*Additional Eligibility criteria:*

Knowledge on waste technology and commercialization of products will be an added advantage

Number of MSc positions and year when they will be offered: 2 (1 Scholarship in year 1 and second one in year 3)

### **Thematic Area 2: Socio-economic development**

Relevant MSc Programmes and respective Institutions:

*Degree:* Master of Arts (Economics) – University of Dar es Salaam

*Additional Eligibility criteria:*

A bachelor degree in social sciences preferably Economics and/or Statistics

Good knowledge/skills in Quantitative Methods is an added advantage

Number of MSc positions and year when they will be offered:

One (1) M.A scholarship in 2022/2023

### **Thematic Area 3: Urban Transport**



Relevant MSc Programmes and respective Institutions:

Degree: Dual Degree Master of Transportation Sciences at Ardhi University and Hasselt University

Additional Eligibility criteria:

The Admission Board will consider all applications individually. The standard requirements set by Hasselt University are applicable to all applicants of the Master of Transportation Sciences: For more information visit UHasselT website: <https://www.uhasselt.be/en>

**DIPLOMA REQUIREMENTS:** All applicants should hold at least a university degree or a diploma of higher education equivalent to a (academic) bachelor's degree.

**LANGUAGE REQUIREMENTS:** Sufficient knowledge of English is required and is to be certified by one of the below mentioned tests. Native speakers or holders of a degree, obtained in the English language are exempt from these tests:

- a TOEFL-score report (paper based: score 550 or more, computer based: score 213 or more, internet base: score 79-80). For more information about the TOEFL, go to [www.toefl.org](http://www.toefl.org). Students who take in the test are required to indicate institution code 9005, so that the results are transmitted to Hasselt University directly. Note that we only accept **academic** TOEFL or IELTS-test results.
- IELTS-certificate (min. overall band score 6.0). For more information, go to [www.ielts.org](http://www.ielts.org). On the day of the test, Hasselt University can be selected as the institution to which the test result should be sent, with reference to the contact person of the programme for which you wish to apply. Note that we only accept **academic** TOEFL or IELTS-test results.

Note that a **letter of motivation** is compulsory in the application file. Apart from previously obtained degrees and grades and the level of English proficiency, the motivation for choosing to study the master of Transportation Sciences by distance learning is also taken into consideration by the examination board when deciding on whether or not an applicant can be admitted to the programme.

Number of MSc positions and year when they will be offered:



2 dual degree MSc scholarships in the 2022/2023 academic year (semester 1 at Hasselt University, semesters 2/3/4 at Ardhi University)

#### **Thematic Area 4: Cultural Heritage**

##### Relevant MSc Programmes and respective Institutions:

Degree: One Year Master in Adaptive Reuse at Hasselt University

(Candidates may do some data collection in Tanzania to contribute to the project. The candidate may be guided to do some work before going to Belgium).

##### Additional Eligibility Criteria:

Application procedure is based on portfolio review of previous works pertinent to cultural heritage.

##### Number of MSc positions and year when they will be offered:

4 Masters scholarships; One in the 2022/2023 academic year; others in each of the following years

#### **Thematic Area 5: Gender and Participation**

##### Relevant MSc Programmes and respective Institutions:

Advanced master of Development Evaluation and Management (DEM)(Institute of Development Policy, University of Antwerp), see information at [DEM](#) and;

Master of Arts in any of the following areas: i) Gender studies ii) Community Development iii) Social Work and iv) Sociology tenable at any accredited Tanzanian University

##### Additional Eligibility criteria:

Eligibility criteria for Advanced Master of Development Evaluation and Management (IOB, University of Antwerp): see [DEM](#)

##### Number of MSc positions and year when they will be offered:

1 Advanced Master at IOB (University of Antwerp) in 2022/2023 academic year, 2 Master of Science at Tanzanian university (1 to start in academic year 2023/2024 while the other one to start in academic year 2025/2026)



## **Thematic Area 6: ICT and Smart Cities**

### Relevant MSc Programmes and respective Institutions:

Master of Science in Embedded and Mobile System or Master of Science in Information and Communication Technology and Engineering at Nelson Mandela African Institution of Science and Technology. In addition, a candidate must be ready to work on an applied research project related to IoT and Smart Cities, or Data Analytics for Smart Cities e.g., Investigating Smart ICT for Waste Management including use of IoT and Data Analytics, or Smart ICT for Management of Public Transport around Dar es salaam. Therefore, the candidate must demonstrate their affinity towards IoT and Machine Learning/ Artificial Intelligence / Big Data Mining and Analytics.

### Additional Eligibility criteria:

Specific qualifications: Bachelor's Degree in the fields of Computer Engineering, Telecommunications Engineering, Data Science, Information systems, Computer science, Informatics, Electronics or communications.

Applicants are required to demonstrate a good proficiency in spoken and written English language.

Desired qualifications: Strong expertise in smart technologies, data infrastructure/governance, e-participation/co-creation, emerging technologies, and data analytics.

### Number of MSc positions and year when they will be offered:

1 MSc scholarship in the 2023/2024 academic year or in Autumn of 2023

## **Application Procedures and Deadline:**

Copies of application documents including i.) Admission letter from relevant Institution, ii.) a motivation letter; and iii.) all relevant supporting documents



(e.g. certified copies of certificates, CV, etc.), both hard and soft copies, should be submitted to Ardhi University using the following address:

Director, Postgraduate Studies Research and Publications

Ardhi University,

P.O Box 35176,

Dar es Salaam.

Email: [dprp@aru.ac.tz](mailto:dprp@aru.ac.tz)

All applications should be submitted not later **than 25<sup>th</sup> June, 2022** for those who wish to begin their studies this year (2022/2023 academic year).