*Africa Centre of Excellence for Sustainable Power and Energy Development*

*(ACE-SPED)*

UNIVERSITY OF NIGERIA, NSUKKA



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**WORLD BANK Africa Centre of Excellence on Sustainable Power and Energy Development**

**(ACE-SPED)**

**University of Nigeria, Nsukka**

**Advert for Master of Engineering (M.Eng)/Master of Science (M.Sc) Programmes for the 2019/2020 Academic Session**

1. **Introduction**

The Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED) is hosted in the University of Nigeria, Nsukka under the World Bank Africa Centre of Excellence (ACE) Impact Project.

1. **Vision Statement**

To establish a regional hub focused on addressing the energy and power challenges of sub-Saharan Africa through research, education and collaboration with sectoral partners.

1. **Mission Statement**

To create a functional problem-solving Centre of Excellence with capacity to carry-out power systems and energy development, knowledge transfer and human capital upgrade.

ACE-SPED is seeking suitably qualified candidates to join our M.Eng./M.Sc. programmes in our core focus areas in energy and power for the 2019/2020 academic session.

1. **Philosophy and Objectives of the Programmes**

The M.Eng./M.Sc. degree programmes of the ACE-SPED are guided by the awareness that the major developmental challenges in the Sub-Saharan Africa region are centered on non-existence or generally poor access to electric power and energy supply to the citizenry. This poor level of energy equity, energy security and environmental sustainability is a major threat to development. Auspiciously, the natural resources that can be harnessed to resolve these challenges are readily available, sometimes in abundance. However, the needed human capital and technology to harness these resources are often deficient in quantity and quality. The major aims of the M.Eng./M.Sc. degree programmes of ACE-SPED will, therefore, be to carry out impactful educational and research aimed at tackling the power and energy delivery challenges in Sub- Saharan Africa which includes: Lack of access to reliable electric power supply, Poor diffusion of renewable and alternative energy technologies, Shortage of high level skilled manpower to deploy and manage the power supply system.

Using student-centered, interactive and engaging educational curriculum, robust Research & Development themes with strong practice orientation, ACE-SPED intends to equip its graduates to deliver great impact on sustainable power and energy development in the region. The educational and research programs are structured in such a manner that would produce well-trained and focused young professionals equipped with the right skills to engage in diverse power and energy projects to address the afore-mentioned challenges.

1. **Scope of the Programmes**

The study is done by course work with research work to be presented in a project report. The programmes are hosted in collaboration with the relevant academic departments as shown below:

1. Department of Electrical Engineering
2. Department of Mechanical Engineering
3. Department of Agricultural and Bioresources Engineering
4. Department of Metallurgical and Materials Engineering
5. **Entry Requirements**

Applicants must possess B.Eng. or B.Sc. degree with at least Second Class Honours of minimum GPA of 2.75 on a 5-point scale (or 2.4 on a 4-point scale) from the University of Nigeria or any other recognized university or an equivalent qualification in the relevant disciplines in engineering or physical science.

1. **Mode of Study and Credit Units**

The programmes are by course work, to be examined in written papers together with research work, to be presented in a project report, but course work predominates over research and constitutes not less than two thirds of the total credit hours. Students are required to take prescribed compulsory and courses in their chosen areas of specialization. Pass mark for course work is 50%.

The various programmes in the collaborating departments are:

1. **M.Eng./M.Sc. in Electrical Engineering**
2. Power Electronics Devices and New Energy Systems
3. Power Systems and High Voltage Engineering
4. Automatic Control Systems
5. **M.Eng./M.Sc. in Mechanical Engineering**
6. Energy and Power Technology

**(c) M.Eng./M.Sc. in Agricultural and Bioresources Engineering**

1. Renewable Energy Engineering
2. **M.Eng./M.Sc. Metallurgical and Materials Engineering**
3. Advanced Materials Engineering
4. **Duration**

M.Eng./M.Sc. programmes – 3 Semesters (18 Months)

Candidates are expected to have completed their programmes within this time frame.

1. **Scholarship Opportunities in ACE-SPED**

Limited number of scholarships covering tuition and sundry fees are available for successful applicants. In addition, the cost of accommodation will be covered for successful applicants from other West African and Central African Countries.

The following additional incentives will also be available to successful applicants, conditional upon their progress in their studies:

1. Industrial internship in collaborating industries.
2. Sponsorship to academic conferences.

Gender inclusiveness is a major policy thrust of the Centre. Consequently, special consideration and support will be given to successful female applicants. Female candidates are, therefore, encouraged to apply.

1. **Points of Note**
2. All national candidates must take a screening test on a date to be announced
3. Candidates that meet the requirements in (4) above but have already applied for the University of Nigeria Master programme as in this advert need not pay application fees again. They should send details of their application to the following email address: acesped@gmail.com
4. Shortlisted candidates will undergo an oral interview as part of the selection process
5. The last day for application or sending of email as in 8 (ii) above is on November 5th, 2019.