

**WORLD BANK AFRICA CENTRE OF EXCELLENCE  
CENTRE FOR OIL FIELD CHEMICALS RESEARCH  
UNIVERSITY OF PORT HARCOURT(CEFOR)**

**OBJECTIVES FOR ESTABLISHING CEFOR**

The objectives of the CEFOR include:

- Promote home grown and regional research networks that will develop human capital in Africa.
- Strengthen human capacity and serve as training hub for Oil and Gas industry workforce in Africa.
- Fill gaps in labor market demands for skills within these specialized areas.
- Increase capabilities of faculties and students in Africa through quality postgraduate education, knowledge transfer and internship programmes.
- Run short courses in Petroleum Engineering and related disciplines.

To actualize these targets it became obvious that we find other means of raising funds in addition to the grant from the World Bank. Through our University entrepreneurship and market development drive, the following among others are external revenue generation sources that have contributed to enhance our externally generated fund portfolio.

**OUR STRENGTH AND STRATEGY**

We possess good learning infrastructure, focus on research programs relevant to industry, have a more autonomous operational identity required for efficient project implementation. The Institute regularly embarks on several national and international collaborations and thus, bringing together diverse cultures, academic programs, multidisciplinary and technology applications.

**Revenue generation from Industry: Lessons learned**

**Strategy and Organization: to meet the Industry needs**

Industrial teaching and research focus  
Efficient project implementation capacity  
Setting up appropriate facilities for industrial collaboration

**Industry Involvement in:**

- Curricula review
- Academic advisory Board
- Teaching
- Public private partnerships in postgraduate programs
- Professional chairs

**A long-term continuous and dedicated relationship**

Engaging in viable public-private partnerships (PPPs) with relevant industry partners allows greater involvement of the industry in our postgraduate (masters' and doctorate) programs. The postgraduate courses and research are designed, organized and taught on modular basis with teaching responsibility shared amongst experienced and active resource persons from the collaborating universities and Industry partners.

We involve our industry partners in our curricula review and Academic Advisory Board. Therefore, our strong university-industry relationships with the resultant cross-fertilization of ideas have continued to be a veritable source of externally generated funds.

**Research grants from grant-making agencies.**

To realize this, proposals are written in response to calls from research grant agencies in line with their requirements and research focus areas. In most cases the graduate students who are involved in such projects benefit immensely and also the revenue portfolios of the Centre are enhanced. Companies like the MacArthur Foundation, Nigerian Content Development Monitoring Board(NCDMB), Petroleum Training Development Fund(PTDF) among others are major players in this area.

### **Funding from Industry Partners**

This constitutes the bulk of funds from our externally generated funds. These partners are involved in building facilities, sponsorship of students, paying of resource persons honorarium. The major contributors include NNPC/TEPNG JV, Emerald Energy Resources Ltd and Nigeria LNG Limited among others.

### **Charges from short courses, consultancy services and capacity building**

Funds are also raised from consultancy services, capacity building training as well as from short courses. With the government drive for more participation of the local players and Universities in human capital development, these opportunities if harnessed will form a substantial part of our externally generated fund portfolio.

### **Tuition fees from students and Scholarships.**

Fees from students are also one of the sources. Raising enough funds from this avenue is a challenge especially for the graduate programs that the students are not many. Most of the students because of their financial capabilities cannot pay fees that can sustain a high profile program. Some of the students get sponsorship and scholarships from organizations and companies. The Petroleum Training Fund (PTDF), NCDMB and Total

### **Endowment for Professorial chairs**

This source has contributed immensely towards research development and support of graduate students project. Here companies with specific research needs commit fund and appoint a Professor to drive the research. In addition to providing fund, some of the companies provide laboratory facilities and equipment. Some of the companies that had offered these opportunities include Shell Petroleum Development Company(SPDC), Petroleum Training Development Fund(PTDF), Nigerian LNG Ltd, Nigerian Content Development Monitoring Board(NCDMB) and Total Exploration Petroleum Nigerian Ltd are among such companies.

The key Industry Partners among others in collaboration with the Centres of Excellence in CEFOR are:

Sectors	Centres of Excellence	Post-Graduate Programme	Key Industry Partners	Professional Bodies
Upstream:	Petroleum Geosciences	M.Sc Petroleum Geosciences.	(supported by MacArthur Foundation, TOTAL and other companies)	Nigerian Society of Petroleum Explorationists (NAPE)
	Oil & Gas Technology (IFP School)	M.Sc Petroleum Engineering & Project Development. PGD in Petroleum Technology.	Sponsor: NNPC/TEPNG JV	Society of Petroleum Engineers (SPE)
	Advanced Petroleum Research /CPRT (Nigerian and Foreign Universities)	PhD Petroleum Engineering.	(supported by several companies)	SPE
Downstream	Gas, Refining & Petrochemical Technology	M.Sc Petroleum Refining & Petrochemicals Engineering.	supported by Nigeria LNG Limited Others: Energia, Eleme Petrochemicals etc	Nigerian Society of Chemical Engineers (NSChE)
Corporate	Petroleum Economics, Policy & Strategic Studies	M.Sc Petroleum Economics & Management. M.Sc Petroleum Policy and Law.	Sponsor: Emerald Energy Resources (Ltd	International Society of Energy Economists; SPE; Nigerian Society of Energy Economists
	Occupational Health, Safety & Environment (HSE School)	M.Sc Environmental Technology & Management. M.Sc Occupational Health and Safety.	supported by Fugro Limited and other Companies	Institute of Safety Professionals of Nigeria (ISPON); Nigeria Environmental Society; SPE; NREP(USA)
General	Continuing Education	Industry Short Courses.	Different Companies	