



## **Edu INAM**

**Home Country**  
**Nigeria**

**Degree**  
**Post-Doctorate in**  
**Chemistry**

**Expertise**  
**Groundwater**  
**Monitoring**

**Research Focus**  
**Arsenic and Heavy**  
**Metals**  
**Contamination**

**Host University**  
**Gwangju Institute of**  
**Science and**  
**Technology, Republic**  
**of Korea**  
**(South Korea)**

**Fellowship Awarded**  
**2008**

Edu Inam was born the first child in a family of six in Ikot Ekpene, Akwa Ibom State, Nigeria. After receiving her PhD from Loughborough University in the United Kingdom in 2005, she was selected to attend professional training on managing risk in environmental change at United Nations University in Tokyo, Japan. With sponsorship from the United Nations Development Program, Edu initiated a demonstration biogas technology project in Akwa Ibom State to showcase basic technology in managing cow dung waste for environmental sustainability.

Edu's passion is helping rural communities improve their quality of life through basic scientific adaptations. She is pursuing postdoctoral research at the International Environmental Research Centre of the Gwangju Institute of Science and Technology in the Republic of Korea (South Korea), where she specializes in groundwater monitoring.

Her research focus on screening groundwater sources in rural communities in southern Nigeria for arsenic and heavy metals contamination addresses global concern over elevated concentrations of arsenic in groundwater. The Niger delta basin of Nigeria is where she is concentrating her attention. Many of the Niger delta groundwaters are anaerobic with high concentrations of iron, manganese and organic matter in the aquifer sediments. However, little work has been done to ascertain levels of arsenic in these groundwaters, even though millions of rural people depend upon the raw water for drinking and domestic purposes and may have been exposed to harmful toxic effects such as skin and bladder cancers. Edu is working to identify possible contaminated sites and to promote simple pre-treatment technologies with an overall aim of protecting human health in Nigeria while providing baseline information for future monitoring programs.

Edu plans to continue teaching at the University of Uyo in Akwa Ibom State, Nigeria.