



**Christianah Olakitan
IJAGBEMI**

Home Country
Nigeria

Degree
**PhD in Environmental
Science and Engineering**

Expertise
**Civil and Environmental
Engineering**

Research Focus
**Eco-Efficient Technology
for Soil and Water Treatment**

Host University
**Ewha Womans University,
Republic of Korea (South
Korea)**

Fellowship Awarded
2007

Christianah Ijagbemi is married with four children. During her own childhood in Nigeria she completed six years of primary school in four years and graduated as the best student in her high school.

Christianah has a master's degree in mechanical engineering with a specialization in energy transfer and thermofluids. Now a registered engineer, she is a lecturer in the Mechanical Engineering Department of the Federal University of Technology, Akure and a PhD student in the Department of Environmental Science and Engineering at Ewha Womans University in Seoul, Republic of Korea (South Korea).

Her research focuses on the development of eco-efficient technology for soil and water treatment. She is working to develop in-situ technology to treat volatile organic pollutants in soil using microwave irradiation principles. She is currently seeking to investigate, analyze and validate design parameters for the development of a field model. Her work in developing this clean, cost-effective and efficient technology is expected to help solve numerous environmental problems in reclaiming soil and water that has been polluted with harmful organic compounds.

In addition, as a researcher in treatment technologies she is involved in the development of a material for the treatment of heavy metals in industrial effluents. She is studying the physicochemical surface properties of montmorillonitic smectite clay, a common natural resource, to develop an efficient treatment material for removal of heavy metals in industrial waste water and metal-bearing sludge. This work will be of immense benefit to the industrial sector, which is currently faced with strict environmental regulations on heavy-metal discharge. Progress in her research has been published in highly ranked international peer-reviewed journals.

Christianah plans to continue her teaching career at the Federal University of Technology, Akure in Nigeria.