

## **Research description**

**Dr.-Ing. Emeka S. Obé**

### **Dual-winding reluctance generators for ac and dc load supplies**

The aim of the research work is to provide a detailed analytical procedure for obtaining the characteristics of a synchronous reluctance generator which can readily supply both ac and dc loads from two independent stator circuits. An axially-laminated rotor machine is used for the study. The steps being accomplished are: Inductance calculations by winding function procedure, Finite element calculations, Dynamic simulation, Steady-state analysis and Testing.