SPECIALISED EQUIPMENT
- Atomic Absorption Spectrophotometers (AAS) (Thermo and Varian/Agilent)
- Ion Chromatograph (Dionex)
- Carbon/Sulphur Analyser
- Gas Chromatograph (GC)-µECD/FID
- Gas Chromatograph/Mass Spectrometer (GC/MS)
- UV Spectrophotometer
- Flame Photometer

OTHER ACTIVITIES
- Capacity building
  * Training of Master and PhD students
  * Internship for universities and polytechnic students
- Consultancies and advisory services

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FUNCTIONS AND RESPONSIBILITIES
- Undertake environmental baseline studies
- Provision of laboratory analytical services for drinking water producers, industries, fish farmers, hotels and the general public
- Monitor pollution in inland, coastal and marine waters and recommend pollution control strategies
- Undertake analysis of PAHs, Pesticides and PCBs in water and related resources from the agricultural industry
- Assessment of trophic state and primary productivity in inland lakes
- Assessment of drinking water quality for sachet and bottled water in Ghana
- Perform quality assessments of industrial, agricultural and domestic discharges in both urban and rural areas and identify their impact on aquatic ecosystems
- Water quality monitoring
- Hydrogeochemical/hydrochemistry study of ground and surface waters
- Industrial wastewater studies
- Environmental impact studies
- Develop Environmental Management Plans
- Development of strategies for water pollution control

ENVIRONMENTAL CHEMISTRY AND SANITATION ENGINEERING DIVISION (ECSED)
The Environmental Chemistry and Sanitation Engineering Division (ECSED) is one of the five Technical Divisions of the CSIR-WRI. The ECSED long-term objective is to generate, process and disseminate water and wastewater quality information to end-users.

AREAS OF EXPERTISE
- Chemical Engineers
- Water Quality Management specialist
- Environmental Chemists
- Environmental Resources Management specialist
- Environmental Chemistry and Ecotoxicology
- Marine Ecology Management Scientist
- Inorganic/Organic Analytical Chemist