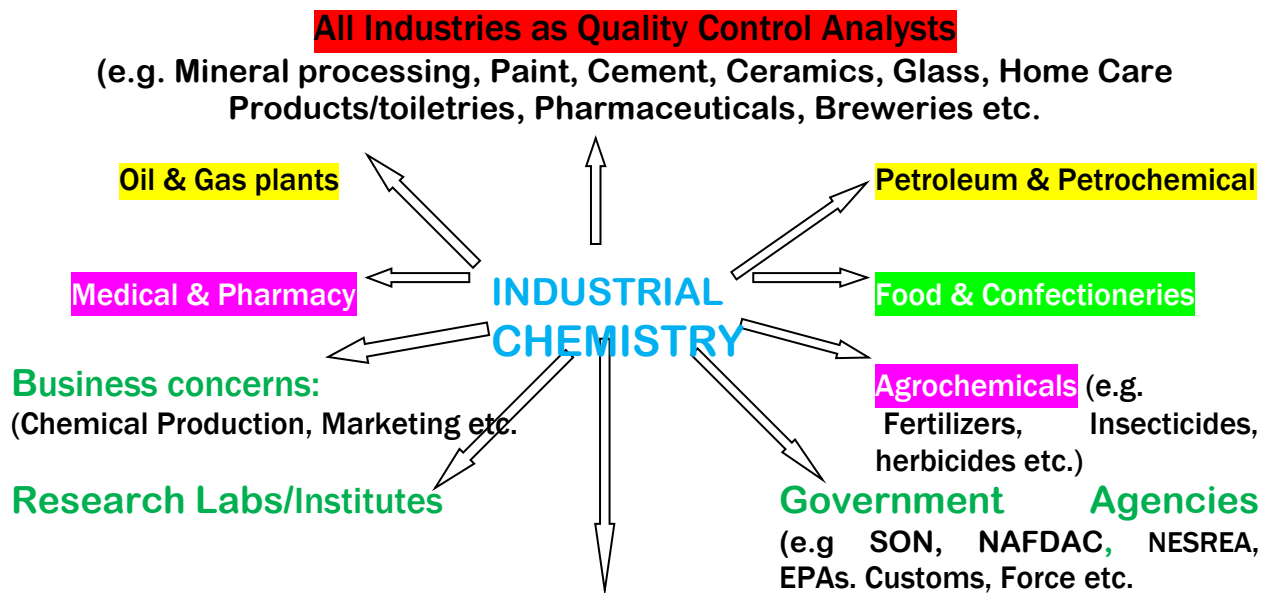


# Department of Industrial Chemistry Career Prospect

Some of the career/job benefits for graduates of Industrial Chemistry are illustrated in Fig. 2. They can work in or



## **Educational Institutes (Lecturing), Civil Service & Ministries**

### 1. THE CONNECTION OF INDUSTRIAL CHEMISTRY WITH OTHER NATURAL SCIENCE DISCIPLINES.

Chemists are involved in the development and teaching career professionals in the under listed areas of scientific discipline, namely:

1. **Agriculture and Natural Resources Management** - having disciplines in;
  - Food Science and Technology
  - Agricultural Economics
  - Fishery and Aquaculture
  - Horticulture
  - Animal Science
  - Crop and Landscape Management
  - Soil Science and Environmental Management.
2. **Medical Sciences** - with disciplines in;
  - Medicine and Surgery
  - Medical Laboratory Science

- Nursing Science
- Physiology
- Pharmacy
- Anatomy
- Physiotherapy
- Radiography/Radiation Science

### 3. **Physical Sciences -**

- Industrial chemistry
- Industrial physics with electronics
- Mathematics and Computer science
- Geology.

### 4. **Biological Sciences -**

- Microbiology
- Biochemistry
- Biotechnology
- Applied biology
- Genetics and plant breeding.

### 5. **Engineering & Environmental Sciences**

- Chemical Engineering
- Civil Engineering
- Electrical/Electronic Engineering
- Mechanical Engineering
- Survey & Geo-informatics
- Agricultural Engineering

### 6. **Education -**

- Biology education
- Computer education
- Physics education
- Mathematics education
- Technical and Vocational education
- Chemistry education.

### **Disciplines in Industrial Chemistry include:**

- Analytical
- Physical
- Organic
- Inorganic

- Environmental
- Petroleum
- Polymer chemistry and

Many more specialized disciplines have emerged in chemistry:

- Nano-chemistry
- Material Science chemistry
- Nuclear chemistry
- Agrochemical chemistry
- Food chemistry
- Medical chemistry
- Petrochemistry
- Geochemistry
- Green chemistry
- Forensic Chemistry
- Environmental Management and Toxicology.

It is important to note that all the disciplines in chemistry find inevitable applications in chemical and allied industries which are indices for viable industrial development, hence economic development.

## **2. DETAILS OF CAREER/EMPLOYMENT OPPORTUNITIES IN INDUSTRIAL CHEMISTRY HIGHLIGHTED IN FIGURE 2.**

Because Chemistry covers all aspects of life, career prospects exist for Chemists in all industries and government agencies. Some of these industries and Agencies are:

Lots of employment opportunities are open to Chemists.

- Lab Analyst in research laboratories
- Computer development/modeling and predicting reactions partway
- Self-employment/Entrepreneurship
- Petrochemical
- Pharmaceutical
- Food processing & Confectioneries
- Breweries
- Mineral processing
- Ceramics
- Glass
- Fertilizer
- Paint

- Perfumery & other house-hold products
- Cement
- Textiles & Leather processing
- Soil analysis
- Air quality analysis & monitoring
- Alternative energy sources such as; solar, wind, hydrothermal, biomass and coal/wood energy.

Thus, you have;

- Research and Development (R&D) Chemists
- Food and confectionery Chemists
- Forensic Chemists
- Chemical Dealers/Marketers
- Technical Service Career in chemistry
- Teachers
- etc.

**In Government Agencies, Chemists are icon at:**

- Institute of Chartered Chemists of Nigeria (ICCON)
- National Agency for Food and Drug Administration and Control (NAFDAC)
- National Environmental Standards Regulation and Enforcement Agency (NESREA),
- National Oil Spill Detection and Response Agency (NOSDRA),
- States Environmental Protection Agencies (EPA's),
- Customs
- Standard Organization of Nigeria (SON) and many more

*You are happily welcome to embrace what you are made of which do not know. Industrial chemistry in Evangel University, Akaeze have experienced professors and senior academics in various fields of chemistry. They are there to teach and mentor you for self employment, entrepreneur skills for your greater future. Build up the passion to study who you are in totality.*