Employment Opportunities

The expertise of chemists is needed in but not limited to chemical industry, government, and the academe.

Industry
✓ as chemical analyst, laboratory supervisor, researcher for product development, consultant, manager of quality control or R&D division in different industries such as:
  • Agriculture
  • Biotechnology
  • Consumer Products
  • Environment
  • Food and Flavor
  • Hazardous Waste Management
  • Intellectual Property and Knowledge Management
  • Materials and Metals
  • Mining
  • Oil and Petroleum
  • Pharmaceuticals
  • Polymers and Plastics
  • Textiles
  • Water

Government
✓ as chemical analyst, research scientist, forensic chemist, technical expert, or laboratory assessor in government agencies such as DA, DOST, DENR, DOH, DTI, and NBI, PNP and PDEA Laboratories.

Academe
✓ as lecturer, reviewer, thesis mentor, laboratory supervisor, researcher and/or administrators in academic institutions

Chemists may also secure non-laboratory work such as science communication, technical writing, marketing and management, product sales, chemical information services, health and safety, patents, project management, and many others.

Careers in Chemistry

Chemical Analyst or Research Scientist for a laboratory or government institution

Professor, Lecturer, or Research Adviser in an academic institution

www.prc.gov.ph
Chemists

Chemists are engaged in the study, analysis, characterization, modification and calculation of physico-chemical or biochemical properties of matter. They perform chemical analysis on products that we export to ensure quality and the food and water that we consume to ensure safety. They discover, develop and improve products, formulas, processes and analytical methods. Some chemists work toward the discovery of cures for cancer and other diseases. Some concentrate on developing new materials for various industries such as electronics and rubber industries. Others focus on the analyses of evidences in crime scenes.

Indeed, chemists have a wide range of career options.

Functions

The professional practice of Chemistry is vital to public welfare, national competitiveness, and the protection of the environment. It covers the performance of a service related to public interest, analysis of commercial products, product standards, and legal/regulatory matters. A chemist has many functions:

- Perform, supervise and certify chemical analysis and chemical synthesis
- Inspect and certify a laboratory with respect to its chemical or biochemical activities
- Manage a chemical laboratory, whether in an industrial, government or academic setting
- Teach, lecture and review a professional chemistry subject
- Supervise and engage in the sale of chemicals, chemical apparatus, or chemical equipment
- Engage in the application of Green Chemistry such as waste management and pollution control

Skills and Competencies

A chemist should have the following attributes:

- The ability to analyze problems and solve them systematically
- Expertise in performing laboratory tests and procedures in carrying out chemical analyses
- Proficiency in the proper use of sophisticated instruments
- Knowledge and implementation of safety practices in the laboratory such as handling of chemicals and waste minimization
- The ability to carry out a research work independently
- The ability to effectively communicate analyses and research results verbally and in writing
- Awareness and practice of Green Chemistry

Cost of Education

A BS-Chemistry degree program in state universities costs from less than PHP 3,000 to PHP 20,000 per semester depending on the income bracket. In a private university, the cost ranges from about PHP 35,000-60,000 per semester.

Basic Educational Requirement

The Bachelor of Science in Chemistry program requires a minimum of 60 units of chemistry, in addition to the GE (General Education) curriculum. The Chemistry curriculum includes 6 units of thesis or research and professional exposure.