

CHEMISTRY

DESCRIPTION

Chemistry is the science of substances: their composition, structure, properties, and interactions as well as the reactions that transform one form of matter into another. Since it is an experimental science, students learn to design and perform the experiments that enhance their understanding of the physical world.

SKILLS

Analytical	Data Collection
Communication	Project Management
Critical Thinking	Research
Creativity	Statistics
Cultural Awareness	Technical Writing
Calculus	

SAMPLE WORK SETTINGS

Agricultural Organizations	Hazardous Waste Plants
Biotechnical Firms	Hospitals
Chemical Companies	Law Enforcement
Colleges/Universities	Medical Laboratories
Consulting Firms	Military Settings
Crime Labs	Museums
Engineering Firms	Petroleum Firms
Environmental Agencies	Pharmaceutical Companies
Federal Government	R&D Labs

SAMPLE OCCUPATIONS

Agricultural Scientist	Market Researcher
Anesthesiologist	Patent Researcher
Biochemist	Pharmacist
Chemical Engineer	Physician
Crime Lab Analyst	Project Manager
Dentist	Regulatory Affairs Specialist
Forensic Chemist	Teacher/Professor
Geophysicist	Toxicologist

ONLINE RESOURCES

SAMPLE EMPLOYERS

Amyris	General Mills
BASF Global	Genencor International
Baxter Healthcare	Honeywell & Jackson
Bayer	Johnson & Johnson
CDM Smith	Kellogg's
CDC	National Institutes of Health
Dow Chemical	Naval Research Lab
Dupont Industries	Nestle
Exxon/Mobil	Pfizer
Federal Bureau of Investigation	PharmAgra Labs
Food and Drug Administration	Revlon
	US EPA

JOB SEARCH RESOURCES

[Chemjobs.net](#)
[sciencecareers.sciencemag.org](#)
[aaas.org](#)
[rsc.org/chemistryworld](#)
[jobs.newscientist.com](#)

STUDENT ORGANIZATIONS

[GWU Energy Group](#)
[Green GW](#)
[Alpha Chi Sigma](#)
[Assoc. of Forensic Science Students](#)
[Peer Health Exchange](#)

PROFESSIONAL ORGANIZATIONS

[American Association for the Advancement of Science](#)
[American Chemical Society](#)
[Chemical Heritage Foundation](#)
[American Society for Biochemistry and Molecular Biology](#)
[International Union of Pure and Applied Chemistry](#)
[National Academy of Sciences](#)



Center for
Career Services

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EDUCATION

The George Washington University, Washington, DC
Bachelor of Science in Chemistry May 2015
GPA: 3.4
Scholarships and Honors:
Charles R. & Elma M. Naeser Scholarship, 2011-Present
National Society of Collegiate Scholars, 2011-Present

TECHNICAL SKILLS

Lab: Proficient in use of centrifuge, infrared spectrophotometer, distillation, filtration, PH meters, light microscopy, enzymatic assays
Computer: Proficient in MS Word, PowerPoint, Excel, and Access; Working Knowledge of SAS and HTML

EXPERIENCE

The George Washington University Hospital, Washington, DC August 2014-Present
Chemistry Lab Intern

- Run controlled lab experiments to test validity of various drug test results
- Trained to perform tests for influenza, pregnancy and other medical conditions
- Enter patient information and test results into the hospital database

The George Washington University, Gillmor Lab, Washington, DC April 2013-June 2014
Undergraduate Researcher

- Conducted experiments on crosslinking, lipid bilayers, and diffusion
- Researched applications of these experiments on diseases including diabetes and Alzheimer's disease

Accomplishment: Received Young Researcher of the Year Award

The George Washington University Hospital, Washington, DC May 2012-March 2013
Lab Assistant, Renal Research Lab

- Prepared lab rats for operation
- Prepared post operational injections for lab rats
- Cleaned lab equipment, prepared lab solutions, and assisted lab scientists with other duties

Accomplishment: Completed a journal of acquired skills in scientific method

Fairfax Hospital, Fairfax, VA May-August 2011
Transport Worker

- Brought patients from rooms to designated areas; discharged patients
- Transported specimens and medical equipment to designated areas

Accomplishment: Received CPR Certification

LEADERSHIP ACTIVITIES

Membership Chair, Alpha Chi Sigma (GW Chemistry Fraternity), April 2014-Present
Member, Alpha Chi Sigma, September 2013-Present
Volunteer Tutor, The George Washington University Chemistry Department, August 2013-June 2014