



Occupations Needed for Pharmaceutical Manufacturing Facility

Below are the occupations for a pharmaceutical manufacturing plant and the number of people graduating from a relevant program in Georgia				
Bioscience Occupations	2009 Georgia Graduates of Related Program	Post-secondary Programs	Georgia Work Ready Profile Level	Georgia Work Ready Certificate Holders at Occupation Level
Packaging and filling machine operators and tenders	181	Certified manufacturing specialist	Silver	95,102
Chemical plant and system operators	11	Chemical technology/ technician	Silver	95,102
Managers, all other	6,953	Operations management, business administration and management, et al	Gold	33,620
Chemists	517	Chemistry, general	Gold	33,620
Inspectors, testers, sorters, samplers and weighers	16	Quality control technology/technician	-	
Chemical equipment operators and tenders	11	Chemical technology/technician	Silver	95,102
Machine feeders and offbearers	181	Certified manufacturing specialist	Silver	95,102
Packers and packagers, hand	181	Certified manufacturing specialist	Silver	95,102
Chemical technician	11	Chemical technology/technician	Silver	95,102
Biological technician	33	Biology technician/ biotechnology laboratory technician	Silver	95,102
Customer service representative	1,020	Customer service support/call center/ teleservice operation	Gold	33,620
Microbiologist	74	Microbiology	-	
Biochemists and biophysicists	67	Biochemistry	Platinum	1,510
OJT - On-the-job training		RWE - Relevant work experience	October 2010	

Packaging and Filling Machine Operators and Tenders (O*NET Code 51-9111.00): Operate or tend machines to prepare industrial or consumer products for storage or shipment. Includes cannery workers who pack food products.

Chemical Plant and System Operators (O*NET Code 51-8091.00): Control or operate an entire chemical process or system of machines.

General and Operations Managers (O*NET Code 11-1021.00): Plan, direct, or coordinate the operations of companies or public and private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. Includes owners and managers who head small business establishments whose duties are primarily managerial.

Chemists (O*NET Code 19-2031.00): Conduct qualitative and quantitative chemical analyses or chemical experiments in laboratories for quality or process control or to develop new products or knowledge.

Inspectors, Testers, Sorters, Samplers, and Weighers (O*NET Code 51-9061.00): Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.

Chemical Equipment Operators and Tenders (O*NET Code 51-9011.00): Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels.

Machine Feeders and Offbearers (O*NET Code 53-7063.00): Feed materials into or remove materials from machines or equipment that is automatic or tended by other workers.

Packers and Packagers, Hand (O*NET Code 53-7064.00): Pack or package by hand a wide variety of products and materials.

Chemical Technicians (O*NET Code 19-4031.00): Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for purposes, such as research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.

Biological Technicians (O*NET Code 19-4021.00): Assist biological and medical scientists in laboratories. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs.

Customer Service Representatives (O*NET Code 43-4051.00): Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints.

Microbiologists (O*NET Code 19-1022.00): Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Includes medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.

Biochemists and Biophysicists (O*NET Code 19-1021.00): Study the chemical composition and physical principles of living cells and organisms, their electrical and mechanical energy, and related phenomena. May conduct research to further understanding of the complex chemical combinations and reactions involved in metabolism, reproduction, growth, and heredity. May determine the effects of foods, drugs, serums, hormones, and other substances on tissues and vital processes of living organisms.

Source: EMSI, Governor's Office of Workforce Development, Technical College System of Georgia, University System of Georgia, October 2010