

EPIDEMIOLOGY

O*NET OnLine

O*NET OnLine is a resource that maintains detailed descriptions of an extensive list of occupations. You can use this resource for career exploration and job analysis as you seek to determine your future career path.

The numbers presented in this guide are O*NET-SOC codes for the corresponding profession title or similar profession on onetonline.org. Enter the code in the occupation search on the home page to take you to a wealth of information about the profession, including more specific job titles, required skills, credentialing, and salary.

Additional career exploration resources can be found on our [website](#).

Areas of Employment

- Academic organizations
- Clinical and community research organizations
 - Clinical trials
 - Research Contract Organizations
- Health agencies and departments at federal, state, city and local level
- Non-governmental Agencies
- National and International Organizations
- Hospitals/Medical Centers (e.g. infection control)
- Industry (e.g. pharmaceutical companies)
- Non-profits
- Private organizations

Possible Job Titles

- Clinical Trial Research Epidemiologist
- Community Health Worker (21-1094.00)
- Disaster Epidemiologist
- Epidemiologist (19-1041.00)
- Epidemiology Investigator
- Fertility Epidemiologist
- Field Epidemiologist
- Genetic Epidemiologist
- Infection Control Practitioner
- Manager of Research and Outcomes
- Survey Researcher

With Doctoral Training

- Chief Epidemiologist
- Epidemiology Professor
- Health Specialties Professor (25-1071.00)

Primary Competencies

- Identify key sources of data for epidemiological purposes
- Describe a public health problem in terms of magnitude, person, time, and place
- Explain the importance of epidemiology for informing scientific, ethical, economic, and political discussion of health issues

MS Specific

- Demonstrate knowledge of role of epidemiology within public health
- Demonstrate knowledge of natural history of one or more specific diseases or health conditions (causation, control and prevention)
- Demonstrate the ability to manage, critically analyze, and interpret data from an epidemiological study

MPH Specific

- Identify the principles and limitations of public health screening programs
- Apply basic epidemiologic concepts, definitions and study design to public health practice and research
- Communicate epidemiologic information to lay and professional audiences
- Calculate epidemiology measures and draw appropriate inferences from epidemiologic data

PhD Specific

- Use basic and advanced philosophy, theory, and principles of epidemiology in the practice of science
- Apply advanced quantitative methods to the study of human behavior, population characteristics, and the physical environment
- Clearly communicate with and instruct others regarding principles of epidemiology
- Design, manage, critically analyze and interpret data from an epidemiological study

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Top Skills Preferred by Employers

- Epidemiological skills including study design, data analysis, and data interpretation
- Ability to draw appropriate inference from epidemiologic data
- Comprehend basic ethical and legal principles pertaining to collection, maintenance, use and dissemination of epidemiologic data
- Project management
- Ability to become familiar with new disease areas efficiently
- Identify the principles and limitation of public health screening programs
- Ability to conduct field research
- Excellent research skills
- Statistical analyses
- Data management skills
- Proficiency with statistical software (SAS, Stata)
- Verbal and written communication skills to lay and professional audiences
- Write and understand epidemiology reports and ability to evaluate their strength and weaknesses

Professional Associations

- American College of Epidemiology (ACE)
- American Public Health Association (APHA)
- Texas Public Health Association (TxPHA)
- Association for Professionals in Infection Control and Epidemiology
- International Epidemiological Association
- Society for Epidemiological Research (SER)
- Society for Healthcare Epidemiology of America
- International Society for Environmental Epidemiology (ISEE)
- Scientific Committee on Epidemiology in Occupational Health (EpiCOH)
- Society for Pediatric and Perinatal Epidemiology (SPER)
- Society for Research on Nicotine and Tobacco (SRNT)
- Society for Prevention Research (SPR)
- American Heart Association
- American Diabetic association
- American Cancer Society

Examples of Employers

Texas

- Academic Institutions
 - University of Texas, Health Science Center
 - Texas A&M Health science center
 - Rice University
 - University of Houston
 - Southern Methodist University
 - Baylor College of Medicine
 - MD Anderson Cancer Center
- Hospitals and Health Care Institutions
 - The University of Texas Medical Branch
 - Baylor College of Medicine
 - Houston Methodist
 - St. Luke Episcopal
 - UT Southwestern Medical school
 - Texas A&M College of Medicine
 - Texas Tech Medical School
- Health Agencies
 - Houston Health and Human Services
 - Harris County Public Health
 - Department of State Health Services
 - Texas Health and Human Services Commission
 - Texas Family and Protective Services
 - Texas Aging and Disability Services
- Research Organizations
 - Innovative Clinical Trial Center Research
 - Houston Center for Clinical Research
 - Research and Clinical Trials Dallas
 - Michael & Susan Dell Center for Healthy Living
 - Restorative Health Care

National

- Centers for Disease Control and Prevention
- National Institutes of Health
- Environmental Protection Agency
- United States Department of Agriculture
- National Institute for Occupational Safety and Health
- Occupational Safety and Health Administration
- Department of Defense
- Food and Drug Administration

Private

- Social and Scientific System (SSS)
- Stratis Group, NY
- Knowsisis
- Whidbey Health, Coupeville, WA
- Geneva Foundation
- RTI International
- CAMRIS International, San Antonio
- Shell Health
- Westat
- Center for Health Care Services