

# Epidemiologists

SOC: 19-1041 • Career Profile Report

## ■ Key Facts

\$83,980

Median Salary

12,300

Employment

+16.0%

Growth Rate

## ■ Requirements & Salary Range

Education: Master's degree

## ■ Automation Risk Assessment

**Low Risk** - 8.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

## ■■ Work-Life Balance

**9.8/10** - Excellent work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	6.2/10	Investigative	9.4/10
Artistic	5.6/10	Social	6.4/10
Enterprising	4.8/10	Conventional	6.4/10

## ■ Top Skills Required

Communication skills, Critical-thinking skills, Detail oriented, Leadership skills, Math and statistical skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Epidemiologists typically perform the following tasks:

- Communicate research findings on various types of diseases to health practitioners, policy makers, and the public.
- Oversee public health programs, including statistical analysis, health care planning, surveillance systems, and public health improvement.
- Investigate diseases or parasites to determine cause and risk factors, progress, life cycle, or mode of transmission.
- Educate healthcare workers, patients, and the public about infectious and communicable diseases, including disease transmission and prevention.
- Monitor and report incidents of infectious diseases to local and state health agencies.
- Plan and direct studies to investigate human or animal disease, preventive methods, and treatments for disease.
- Provide expertise in the design, management and evaluation of study protocols and health status questionnaires, sample selection, and analysis.
- Write articles for publication in professional journals.
- Identify and analyze public health issues related to foodborne parasitic diseases and their impact on public policies, scientific studies, or surveys.
- Write grant applications to fund epidemiologic research.
- Plan, administer and evaluate health safety standards and programs to improve public health, conferring with health department, industry personnel, physicians, and others.
- Conduct research to develop methodologies, instrumentation, and procedures for medical application, analyzing data and presenting findings.
- Consult with and advise physicians, educators, researchers, government health officials and others regarding medical applications of sciences, such as physics, biology, and chemistry.
- Supervise professional, technical, and clerical personnel.
- Teach principles of medicine and medical and laboratory procedures to physicians, residents, students, and technicians.
- Prepare and analyze samples to study effects of drugs, gases, pesticides, or microorganisms on cell structure and tissue.
- Teach epidemiology to students in public health programs.

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Source: <https://www.bls.gov/ooh/life-physical-and-social-science/epidemiologists.htm>