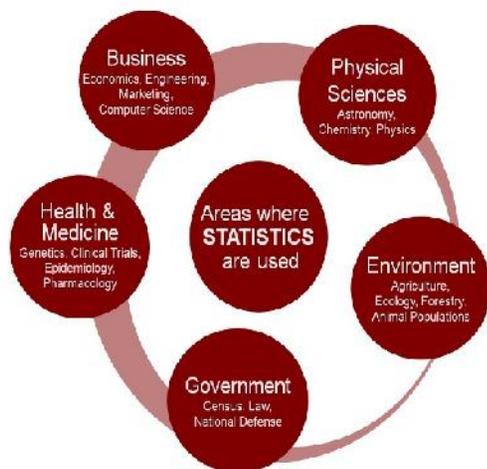


## Education

- High School
  - Study statistics, mathematics, science, computer science, and English
- College
  - Major in statistics, applied mathematics, or a closely related field (i.e. epidemiology, engineering)
- Post-Graduate
  - Many career fields require a Master's degree or PhD in a specialized statistical field



## What are the Goals of **Statistics2013**?

- Increase public awareness of the power and impact of statistics on all aspects of society
- Nurture statistics as a profession, especially among young people
- Promote creativity and development in the sciences of probability and statistics



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## STATISTICS IN EVERYDAY LIFE

**Let us Educate and Appreciate**

## What Can I Do With A Degree in Statistics?



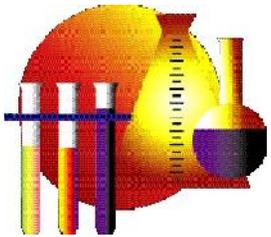
## HEALTH AND MEDICINE



# Statisticians at Work

## Epidemiology

Epidemiological statisticians work on projects such as calculating cancer incidence rates or the rates of chronic and infectious diseases, monitoring and reporting on disease outbreaks, and monitoring changes in health-related behaviors such as smoking and physical activity. Fields of practice include nutritional, environmental, genetic, and social epidemiology, as well as pharmacoepidemiology.



*“Last year when I began applying to medical schools, the fact that I majored in statistics was always a good conversation point in interviews and made me more unique as an applicant.”*

*Amy Elise Darrow, Medical Student*

## Pharmacology

Statisticians in pharmacology work in pharmaceuticals, animal health, and government research. They are key to all aspects of drug discovery, development, approval, and marketing. They work in preclinical research, clinical trials, epidemiology, health economics, and market research. Statisticians are essential in the drug development process because they ensure the validity and accuracy of findings at all stages of the process.



## Genetics

Statistics has been used in human genetics to create automated methods of labeling possible indicators of genetic abnormalities, such as birth defects and early aging. Statistics also has been used in animal and plant genetics to breed desirable characteristics in offspring. Using complex statistical models, statisticians help formulate sound decisions by distinguishing between environmental and genetic effects.

## Public Health



Public health statisticians work on preventing disease, prolonging life, and promoting health through organized community activities. These include sanitation, control of contagious infections, hygiene education, early diagnosis and preventive treatment, and adequate living standards. This field requires understanding of epidemiology, nutrition, antiseptic practices, and social sciences. In many developed countries, public health is studied and coordinated on a national level by a government agency, such as the Centers for Disease Control and Prevention in the United States and internationally by the World Health Organization.

For more information, check out

<http://www.statistics2013.org/>