What can I do with a major in
Statistics
The University of Georgia Career Center

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This information describes typical occupations and employment settings associated with this major. Understand that some of these options may require additional training. Moreover, you are not limited to these options when choosing a possible career path.

Description of Statistics

Statistics has been described as the science of learning from data: everything from planning for the collection of data and data management, to end-product activities such as drawing conclusions from data and presentation of results. Statistics includes the scientific application of mathematical principles to the collection, analysis, and presentation of data. Statisticians contribute to the design of surveys and experiments; collection, processing, and analysis of data; and interpretation of the results. Statisticians apply their methods in all subject areas. Sampling-obtaining information about a population of people or group of things by surveying a small portion of the total is often used. Statisticians the where and how of data, determine the type and size of the sample group, instructions and procedures for the sampling collection, tabulate the data and final analysis, interpretation and summary using computer software.

Researching Job Titles and Careers

O*NET http://online.onetcenter.org (click on Find Occupations)
Occupational Outlook Handbook http://www.bls.gov/oco (type in general term for career of interest)
Georgia Career Information Center http://www.gcic.peachnet.edu (accessible only on campus computers)
Career Insider: Vault Guides http://career.uga.edu/resources/online_resources (Under the "Resources" tab and select "Online Resources")
Candid Career http://career.uga.edu/resources/online_resources (View professionals speaking about their careers under the "Resources" tab and select "Online Resources")

Possible Job Titles

Actuary	Cryptographer/Cryptologist	Psychometrist
Aerospace Engineer	Data Analytics Associate	Quality Assurance Analyst
Appraiser	Debate Program Advisor	Research Analyst
Asset Manager	Econometrician	Risk & Insurance Specialist
Benefits Administrator	Foreign-Exchange Trader	Robotics Programmer
Biometrician/Biostatistician	Information Scientist	Statistical Software Support
Budget Analyst	International Trade Specialist	Statistician
Claims Adjuster	ISO 2000 Specialist	Stock Analyst
Computer Programmer	Mathematician	Supply Chain Analyst
Computer Test Specialist	Numerical Analyst	Technical Writer
Contract Administrator	Operations Research Analyst	Underwriter
Cost Estimator/Analyst	Public Health Statistician	

Possible Employers

Aerospace Companies	Justice Department	Research & Dev. Firms
Bureau of Labor Statistics	Kennecott Ridgeway Mining Co.	Sam's Club
C & L Business Equipment	Library of Congress	Sharp Shooter, Inc Research Social
Colleges & Universities	Logistics	Science Pollsters
Defense Logistics Agency	Market Research	Test Development Corp.
Defense Mapping Agency	NASA	T.E. Properties, Inc.
Employment & Training Adm.	Nat. Hwy Traffic Safety Admin.	Transportation Department
Engineering Technician	National Inst. Standards & Tech	University of Michigan
Google	National Security Agency	U.S. Customs Service
Housing & Mortgage Fin.	NOAA	U.S. Navy
Investment Firms	PRC Environmental Mgmt.	Weights and Measures Office

To learn what types of positions and companies UGA students are working with, see the UGA Career Center Post Graduation Survey at www.career.uga.edu/gradsurveyresults/ and search for alumni on Linked In at www.linkedin.com.

Campus Resources

Statistics Department - http://www.stat.uga.edu/
Undergraduate Listserv - http://listserv.uga.edu/archives/statundergrad-l.html
Statistics Club at UGA – For more information, visit: http://www.stat.uga.edu/

To find additional clubs and organizations, go to the Center for Student Organizations at - http://stuorgs.uga.edu/find/index.html
Connect with your Career Consultant http://career.uga.edu/contact#careerconsultants

Employment Websites

GENERAL:
CareerSearch http://career.uga.edu/resources/online_resources (Research employers by location and/or industry)
DAWGlink www.career.uga.edu/ (login with your UGA MyID and password)
GoinGlobal (To access GoinGlobal, login to your DAWGlink account)
Idealist www.idealist.org/ (nonprofit jobs)
USAJobs www.usajobs.gov/ (federal jobs)

MAJOR/CAREER SPECIFIC:
Statscareer.com - http://www.statscareers.com/
Bureau of Labor Statistics - http://www.bls.gov/jobs/
Environmental Protection Agency - http://www.epa.gov/careers/
Royal Statistical Society Careers - http://www.rss.org.uk/site/cms/contentChapterView.asp?chapter=10
Global Actuarial Recruitment, D.W. Simpson - http://www.actuaryjobs.com/
Careers in Finance - http://www.careers-in-finance.com

Professional Information Resources

Institute of Mathematical Statistics - http://www.imstat.org/
The Biometric Society - http://www.biometricsociety.org/
International Association for Statistical Education -http://www.stat.auckland.ac.nz/~iase/
International Biometric Association -http://www.enar.org/
International Statistical Institute - http://www.isi-web.org/
Society for Industrial and Applied Math- http://www.siam.org/
We Use Math-Information on Careers in Math - http://weusemath.org/
Be An Actuary-Information on Careers in Actuarial Science - http://www.beanactuary.org/

Tip: Join LinkedIn groups that are related to your career interest. Need help finding groups? Check out the Groups You May Like link under the Interests/Groups tab. Review the groups that professionals in your field of interest have joined and consider joining them as well.

Additional Career Consultant Recommendations:

The Science of Statistics
Statisticians do more than just churn out unemployment numbers. They design research, formulate results, and turn those results into meaningful information that non-statisticians can use. Statistics also predict outcomes using data from the past. Almost every industry employs data analysts—from marketing to environmental science—and the work, though not always visible, has a big impact. The following are a few industries that have seen an increased need for statisticians:

Government
The government is one of the largest employers of statisticians, with a need to fill a variety of functions, from studying crime patterns at The Department of Justice to analyzing traffic congestion at The Department of Transportation. The U.S. Census Bureau will also need statisticians to turn out and analyze the nation's demographics for the 2010 Census. The information will affect policies in areas, such as education and infrastructure, and determine how many representatives each state sends to the House of Representatives.

Pharmaceuticals/Healthcare
As the pharmaceutical industry grows, so does the need for statisticians to design clinical trials, collect information about drugs' effects, and test thousands of chemical compounds to find which ones cure which ailments. Bioinformatics, which uses biological data, such as gene sequences to solve medical problems, is another growing area in healthcare that needs statisticians.

Manufacturing
Here statisticians work in quality control and design. Green energy manufacturing is especially important. "If you want to design a wind turbine, you need to figure out what direction it should be pointing in and how long the rotors should be," says Carriquiry. "A statistician can predict where the wind is going to come from and what strength it is going to have using information from the past."

Business

In today's frugal climate, statisticians play an important role because they can help businesses predict which products will be successful and what marketing will work. They can also act as actuaries, determining and managing risk for financial services and insurance companies.

Financial Services

The world of personal and corporate finance provides a work setting where statisticians can help individuals and businesses with financial management, interpreting financial markets and institutions, and providing financial planning.

Research & Development

Statisticians involved with R& D help find solutions to specific research problems and facilitate the development of new research skills and services that advance the research environment.

Consulting

A consultant uses the art and science of statistics to solve a practical problem. Problems come from many different fields, e.g. marketing, product design, manufacturing, medicine, agriculture, or genetics, but many of us specialize in just a few application areas.

From "Doing the Math: Careers in Statistics" by Cara Scharf
https://www.wetfeet.com/articles/doing-the-math-careers-in-statistics