

MATHEMATICS / ACTUARIAL SCIENCE- Career Resource Guide

Potential Career Options

Below is a sample of related career options; for some, additional experience and/or further education may be helpful or required.

Actuarial Analyst	Use mathematics, statistics, and financial theory to assess the risk that an event will occur and help businesses and clients develop policies that minimize the cost of that risk.
Applied Mathematician	Use theories and techniques to solve problems.
Data Analyst/Scientist (Predictive Analytics)	Take raw data and combine it with analysis to make it more assessable and valuable to a company. Manage digital data collections.
Financial Analyst	Provide guidance to businesses and individuals making investment decisions. Assess the performance of stocks, bonds, and other types of investments.
Mathematics Teacher	Instruct mathematical topics such as algebra, geometry, calculus, statistics and trigonometry to middle school and high school students.
Operations Researcher	Assist organizations in coordinating and operating in the most efficient manner possible by applying mathematical principles.
Statistician	Collect, analyze, interpret, and present numerical data for problem solving.
Theoretical Mathematician	Develop previously unknown relationships between existing mathematical principles.

Sample Job Titles

Actuarial Analyst	Operations Research Analyst
Applied Mathematician	Psychometrician
Claim Manager	Reimbursement Analyst
Computer Applications Engineer	Reporting Analyst
Demographer	Risk Management Associate
Financial Analyst	Statistician/Statistical Analyst
Loan Analyst	Underwriter

Career Information Resources

Vault-Firsthand is a comprehensive career resource that includes industry and profession overviews; rankings and profiles for employers and internship programs; a job and internship database; career articles, blogs and videos; sample resumes, cover letters and interview questions; and over 100 career guides. A selection of the Vault Guides is listed below.

Vault Guide to...	Vault Career Guide to...
Actuarial Careers	Insurance
Education Jobs	
Insurance Jobs	
Mathematics and Physics Jobs	

Refer to the [CSS website](#) for links to Vault-Firsthand, the Career Development Tip Sheets, and Handshake (jobs, career paths, events).

Associations/Societies

American Mathematical Society * LI	www.ams.org
American Statistical Association * LI	www.amstat.org
Association for Women in Mathematics * LI	www.awm-math.org
Casualty Actuarial Society * LI	www.casact.org
Digital Analytics Association * LI	www.digitalanalyticsassociation.org
Mathematical Association of America * LI	www.maa.org
National Council of Teachers of Mathematics * LI	www.nctm.org
Society for Industrial and Applied Mathematics * LI	www.siam.org
Society of Actuaries * LI	www.soa.org

* Contains employment listings
LI - LinkedIn Group

Career & Employment Websites

Actuary.com	www.actuary.com
Be an Actuary	www.beanactuary.com
Dice	www.dice.com
Mathematical Sciences Career Information	www.ams.org/careers
Occupational Outlook Handbook- Search Actuaries and Mathematicians	www.bls.gov/ooh/math/home.htm
PA – Educator.Net	www.paeducator.net
Society for Industrial and Applied Mathematics	www.siam.org
Society of Actuaries	www.soa.org

Refer to the [Career and Professional Development Center](#) for job search resources and to link to Handshake (job postings and events).

Selected RMU Activities & Organizations

Actuarial Science Club	Society for the Advancement of Management
Association of Computing Machinery	Sport Analytics Club
Association of Future Accountants	Student Government Association
Financial Management Association	Student – Pennsylvania State Education Association
Mathematics Club	Student Program Board

Refer to [Revolution](#) for a complete listing of student organizations.

Bachelor-Level Internship Organizations

Aetna	Life Insurance Company of North America
Buck Consultants	New York Life Insurance Company
Cigna	Principal Financial Group
Coventry Health Care	UPMC
Highmark Health	Willis Towers Watson
John Hancock	

Bachelor-Level Hiring Organizations

ACTUARIAL SCIENCE

Charles Schwab & Co.
Cigna
Erie Insurance Group
Geico
Highmark Health
John Hancock
Mass Mutual Financial Group
Mercer
New York Life Insurance Company
Ohio National Financial Services
Penn Mutual
Principal Financial Group
The Hartford
UPMC Health Plan
Willis Towers Watson

MATHEMATICS

Auto-Owners Insurance Company
Bank of New York Mellon (BNY Mellon)
Citizen's Bank
Dick's Sporting Goods
DiNuzzo Index Advisors, Inc.
Elizur
Financial Resources FCU
Kelly Services
PNC Financial Services
S&T Bank
TEKSystems
TFC Bank
West Virginia State Budget Office