

**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.

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

**Sample Job Titles**

Actuarial Analyst	Operations Research Analyst
Actuarial Assistant	Psychometrician
Applied Mathematician	Reimbursement Analyst
Claim Manager	Reporting Analyst
Data Analyst	Risk Management Associate
Demographer	Statistical Analyst
Financial Analyst	Statistician
Loan Analyst	Underwriter

**Career Information Resources**

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

<b>Vault Guide to...</b>	<b>Vault Career Guide to...</b>
Actuarial Careers	Insurance
Education Jobs	
Insurance Jobs	
Mathematics and Physics Jobs	

Refer to the [CSS website](#) for links to Firsthand, the Career Development Tip Sheets, and Handshake (job postings and events).

**Associations/Societies**

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

\* Contains employment listings

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## Career & Employment Websites

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Actuary.com	www.actuary.com
Be an Actuary (Society of Actuaries)	www.beanactuary.org
Dice	www.dice.com
Mathematical Sciences Career Information (AMS)	www.ams.org/careers
Occupational Outlook Handbook- Math Occupations	www.bls.gov/ooh/math/home.htm
PA – Educator.Net	www.paeducator.net

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

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## Selected RMU Activities & Organizations

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Actuarial Science Club	Bridging Education, Service, and Teaching Club
Analytics Club	Financial Management Association
Association of Computing Machinery	Sport Analytics Club
Association of Future Accountants	Student Government Association

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

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## Bachelor-Level Internship Organizations

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

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## Bachelor-Level Hiring Organizations

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### ACTUARIAL SCIENCE

Aetna  
Buck  
Charles Schwab & Co.  
Cigna  
Erie Insurance  
Geico  
Highmark Health  
John Hancock  
Mass Mutual Financial Group  
Medical Mutual of Ohio  
Mercer  
Metro Benefits, Inc.  
New York Life Insurance Company  
Ohio National Financial Services  
Penn Mutual  
PNC Bank  
Principal Financial Group  
Risk International  
The Hartford  
UPMC  
Willis Towers Watson

### MATHEMATICS

ACA Group  
Auto-Owners Insurance Company  
Bank of New York Mellon  
Cardinal Health  
Citizen's Bank  
Dick's Sporting Goods  
DiNuzzo Index Advisors, Inc.  
Financial Resources Federal Credit Union  
John Hancock  
Kelly Services  
Longs Peak Advisory Services  
Mylan  
Northwestern Mutual  
PNC Bank  
PNC Financial Services  
S&T Bank  
ServiceLink  
Thermo Fisher Scientific  
Travelers  
UPMC  
West Virginia State Budget Office