

## MATHEMATICS/ACTUARIAL SCIENCE- Career Resource Guide

### Career Options

<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>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.

### Business/Industry Job Titles

Actuarial Analyst	Operations Research Analyst
Applied Mathematician	Psychometrician
Computer-Applications Engineer	Statistician/Statistical Analyst
Demographer	Teacher/Professor
Financial Analyst	Theoretical Mathematician
Meteorologist	Underwriter

### Periodicals/Books of Interest

#### RMU Library

American Mathematical Monthly  
 Business Math for the Numerically Challenged  
 Educational Studies in Mathematics  
 Excelling in Math and Science  
 Gender-Fair Math  
 Let's Do Math  
 Math for College Students: Arithmetic with Introduction to Algebra  
 and Geometry  
 Math for Quality Control  
 Math on File

Math on the Job  
 Mathematics and Computer Education  
 Mathematics Magazine  
 Monthly Bulletin of Statistics  
 School Science and Mathematics  
 Society for Industrial and Applied Mathematics  
 The Future Actuary  
 The Mathematics Teacher  
 The Nature of Mathematical Thinking  
 What's Happening in Math Class?

#### Career Center Library

101 Careers in Mathematics  
 Actuaries' Survival Guide  
 Careers for Number Crunchers & Other  
 Quantitative Types  
 Careers in Focus: Mathematics and Physics  
 Great Jobs for Math Majors

### Associations/Societies

American Mathematical Society *	<a href="http://www.ams.org">www.ams.org</a>
American Statistical Association *	<a href="http://www.amstat.org">www.amstat.org</a>
Association for Women in Mathematics *	<a href="http://www.awm-math.org">www.awm-math.org</a>
Casualty Actuarial Society *	<a href="http://www.casact.org">www.casact.org</a>
Mathematical Association of America *	<a href="http://www.maa.org">www.maa.org</a>
National Council of Teachers of Mathematics *	<a href="http://www.nctm.org">www.nctm.org</a>
Society for Industrial and Applied Mathematics *	<a href="http://www.siam.org">www.siam.org</a>
Society of Actuaries *	<a href="http://www.soa.org">www.soa.org</a>

\* Contains employment listings

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## Career & Employment Websites

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Actuary.com	www.actuary.com
American Banker Online (Resource Center- Career Zone)	www.americanbanker.com
Bankjobs.com	www.bankjobs.com
Be an Actuary	www.beanactuary.com
Mathematical Sciences Career Information	www.ams.org/careers
Occupational Outlook Handbook- Search Actuaries and Mathematicians	www.bls.gov/ooh
PA – Educator.Net	www.paeducator.net
Society for Industrial and Applied Mathematics	www.siam.org
Society of Actuaries	www.soa.org

**Note:** A helpful list of general job search websites is available on the Internet Tip Sheet at [www.rmu.edu/careercenter](http://www.rmu.edu/careercenter).

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## Selected RMU Academic, Professional & Leadership Organizations

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Actuarial Science Club	RMU Investment Network
Association of Computing Machinery	Society for the Advancement of Management
Association of Future Accountants	Student Government Association
Financial Management Association	Student – Pennsylvania State Education Association
Office of Student Civic Engagement	Student Program Board

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## Salary Information

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RMU Salary Survey	Mean	Range
Actuarial Science (2015)	\$58,125	\$42,000 - \$80,000
Applied Mathematics (2014)	\$37,100	\$23,000 - \$48,000

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## Bachelor-Level Internship Organizations

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Aetna	Highmark Inc.
Buck Consultants	Life Insurance Company of North America
Cigna	New York Life Insurance Company
Coventry Health Care	Towers Watson

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## Bachelor-Level Hiring Organizations

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### ACTUARIAL SCIENCE

**Allianz Life Insurance Company** – Actuarial Intern  
**Buck Consultants** – Associate Actuary  
**Charles Schwab & Co., Inc.** – Actuarial Analyst  
**Erie Insurance Group** – Actuarial Analyst  
**Geico** – Actuarial Analyst  
**MassMutual Financial Group** – Actuarial Consultant  
**Motorist Insurance Company** – Actuarial Analyst  
**Penn Mutual Life Insurance Company** – Actuarial Analyst  
**State Farm Insurance Company** – Actuarial Analyst  
**The Hartford Financial Services Group, Inc.** – Senior Actuarial Analyst  
**The Northwestern Mutual Life Insurance Company** – Actuarial Associate  
**Western & Southern Financial Group** – Actuarial Analyst

### MATHEMATICS

**Envision Pharmaceutical Services** – Repricing Specialist  
**Gander Mountain** – Zone Supervisor  
**Guardian Protection Services** – Management Analyst  
**Mercyhurst Preparatory School** – Math Teacher  
**Pittsburgh Computer Solutions** – Finance Manager  
**Reynold and Reynolds Company** – Quality Assurance Analyst  
**Starr Life Sciences Corp.** – Biomedical Engineer  
**UPMC** – Software Engineer and Test Associate  
**Wesco International, Inc.** – Transportation Analyst  
**Williamsburg-James City Schools** – Math Teacher