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

Take raw data and combine it with analysis to make it more assessable and valuable to a company.

(Predictive Analytics) 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 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.

Career Launcher:Vault Guide to...EducationActuarial Careers

Vault Career Guide to...

Education Jobs
Insurance Jobs

Insurance Mathematics and Physics Jobs

Note: Refer to the CPDC website for a link to Vault as well as the CPDC Tip Sheets and Handshake job postings.

Associations/Societies

American Mathematical Society *
American Statistical Association *
Association for Women in Mathematics *
Casualty Actuarial Society *
Mathematical Association of America *

National Council of Teachers of Mathematics *

Society for Industrial and Applied Mathematics *

Society of Actuaries *

www.ams.org www.amstat.org www.awm-math.org www.casact.org www.maa.org www.nctm.org www.siam.org www.soa.org

^{*} Contains employment listings

Career & Employment Websites

Actuary.com

American Banker Online (Resource Center- Career Zone)

Bankjobs.com Be an Actuary

Mathematical Sciences Career Information

Occupational Outlook Handbook- Search Actuaries and

Mathematicians PA - Educator.Net

Society for Industrial and Applied Mathematics

Society of Actuaries

www.actuary.com

www.americanbanker.com

www.bankjobs.com www.beanactuary.com

www.ams.org/careers

www.bls.gov/ooh/math/home.htm

www.paeducator.net

www.siam.org

www.soa.org

Note: A helpful list of general job search websites is available on the Internet Tip Sheet at www.rmu.edu/cpdc.

Selected RMU Activities & Organizations

Actuarial Science Club

Association of Computing Machinery Association of Future Accountants Financial Management Association

Mathematics Club

Office of Engaged Learning & Community Involvement

Society for the Advancement of Management

Student Government Association

Student - Pennsylvania State Education Association

Student Program Board

Bachelor-Level Internship Organizations

Aetna

Buck Consultants

Ciana

Coventry Health Care Highmark Health John Hancock

Life Insurance Company of North America

New York Life Insurance Company

Principal Financial Group

UPMC

Willis Towers Watson

Bachelor-Level Hiring Organizations

ACTUARIAL SCIENCE

Cigna

Erie Insurance Group

Geico

Highmark Inc.

John Hancock

Mass Mutual Financial Group

New York Life Insurance Company

Penn Mutual

Principal Financial Group

State Farm

The Hartford

Transamerica Life Insurance Company

UPMC Health Plan Willis Towers Watson

MATHEMATICS

Academy Charter School

BNY Mellon

Brick Street Insurance

Canon McMillan High School

Compassion International

Ernst and Young (EY)

First Commonwealth Bank

Forester's Financial

Highmark Inc.

National Grid

Phi Delta Theta International Fraternity

PNC Bank

Wesbanco