## Careers in Applied Mathematics & Statistics

### Types of Careers in Mathematics & Statistics

**Actuarial Science/Finance** applies mathematics and statistics to compute insurance rates and to build mathematical models to help explain/predict the behavior of financial markets.

**Biomathematics** models natural and biological processes using mathematical techniques and tools in areas such as cell neurobiology, epidemic modelling, and population genetics.

**Computer Science** utilizes mathematical training in logic and problem-solving to implement in computer systems.

**Cryptography** analyzes issues such as the security of ATM cards and computer passwords.

**Operations Research** utilizes mathematical models to determine optimal decisions to maximize/minimize profits/costs, etc.

**Statistics** measures, controls, and communicates uncertainty to provide the navigation essential for controlling the course of scientific and societal advances.

### Employers of Mathematics & Statistics Students

- Avaya
- Baker Hughes
- Ball Aerospace
- Bentek Energy
- Craftsy
- Colorado HealthOP
- Denver Energy Group
- Fast Enterprise
- Institute for Defense Analyses
- Lockheed Martin
- Milliman Inc.
- MWD Trading
- National Instruments
- National Jewish Health
- Northrup Grumman
- Northwestern Mutual
- Platts-McGraw Hill Financial
- Recondo Technologies
- Seagate Technology
- United States Air Force
- U.S. Department of Energy
- XCEL Energy

*23%* Projected growth in employment of mathematicians between 2012-2022*

*2012 Bureau of Labor Statistics*