

Mathematicians and Statisticians

SOC: 15-2021 • Career Profile Report

■ Key Facts

\$104,350 Median Salary	34,600 Employment	+8.0% Growth Rate
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■ Requirements & Salary Range

Education: Master's degree

■ Automation Risk Assessment

Low Risk - 12.0% probability of being automated in the next 10-20 years.
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■ Work-Life Balance

7.8/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	7.4/10	Investigative	9.2/10
Artistic	4.6/10	Social	5.4/10
Enterprising	5.6/10	Conventional	6.8/10

■ Top Skills Required

Analytical skills, Communication skills, Logical-thinking skills, Math skills, Problem-solving skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Mathematicians and Statisticians typically perform the following tasks:

- Mentor others on mathematical techniques.
- Maintain knowledge in the field by reading professional journals, talking with other mathematicians, and attending professional conferences.
- Develop new principles and new relationships between existing mathematical principles to advance mathematical science.
- Disseminate research by writing reports, publishing papers, or presenting at professional conferences.
- Assemble sets of assumptions, and explore the consequences of each set.
- Perform computations and apply methods of numerical analysis to data.
- Address the relationships of quantities, magnitudes, and forms through the use of numbers and symbols.
- Conduct research to extend mathematical knowledge in traditional areas, such as algebra, geometry, probability, and logic.
- Develop mathematical or statistical models of phenomena to be used for analysis or for computational simulation.
- Apply mathematical theories and techniques to the solution of practical problems in business, engineering, the sciences, or other fields.
- Develop computational methods for solving problems that occur in areas of science and engineering or that come from applications in business or industry.
- Design, analyze, and decipher encryption systems designed to transmit military, political, financial, or law-enforcement-related information in code.

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Source: <https://www.bls.gov/ooh/math/mathematicians-and-statisticians.htm>