

## Mathematicians

15-2021.00



**Description:** Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields using mathematical methods.

### Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

**Sample of Reported Job Titles:** Computational Mathematician, Computational Scientist, Cryptographer

### Job Zone

**Title:** 5 - Extensive Preparation Needed

**Education:** Require graduate school.

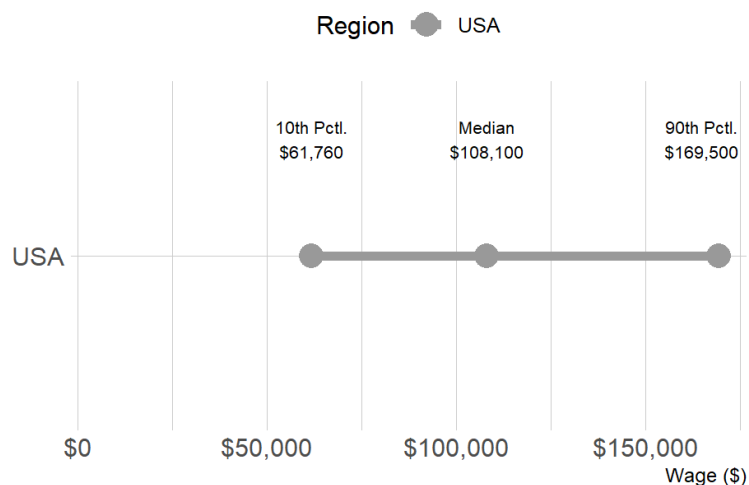
**Experience:** Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

**Training:** May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

**Hot Technologies:** Adobe Systems Adobe Photoshop, Apple macOS, Bash, C#, C++, Cascading style sheets CSS, Extensible markup language XML, Hypertext markup language HTML,

Region	Employment	Location Quotient	Median Wage
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USA	1,770	–	\$108,100
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### Top 5 Core Tasks According to Current Job Holders

Frequency	Importance (out of 100)
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Address the relationships of quantities, magnitudes, and forms through the use of numbers and symbols.

Daily

88

Maintain knowledge in the field by reading professional journals, talking with other mathematicians, and attending professional conferences.

More than weekly

84

Disseminate research by writing reports, publishing papers, or presenting at professional conferences.

More than yearly

84

Apply mathematical theories and techniques to the solution of practical problems in business, engineering, the sciences, or other fields.

More than weekly

83

Develop mathematical or statistical models of phenomena to be used for analysis or for computational simulation.

More than weekly

80