



Educational Topic

Mathematician

Related Job Titles:

Computer Scientist, Computer Programmer

Job Description:

There are two types of Mathematicians: theoretical and applied. Theoretical Mathematicians come up with new mathematical rules and processes using the latest technology. Applied Mathematicians use math rules and processes to solve scientific, engineering and business problems. These problems might include studying and designing computer models that help to create faster and higher aerospace vehicles and systems. Mathematicians usually work in an office and spend a lot of time on the computer.

Interests / Abilities:

- Do you enjoy working with math and technology?
- Are you good at math?
- Are you good at reasoning and logic?
- Do you like to solve problems?
- Do you work well with a team?
- Do you keep working at a problem until you find a solution?

Suggested School Subjects / Courses:

- Math (algebra, geometry, statistics, calculus)
- Computer science (programming)
- Engineering
- Science

Education / Training Needed:

The minimum education required for this position is a bachelor's degree in Mathematics from an accredited college or university. To do research, a Ph.D. is highly desired for this position.

Areas of expertise:

- *Modeling*: make simulations to study and improve aerospace craft and systems
- *Data analysis*: study aerospace problems and come up with the quickest, easiest method of modeling and solving them
- *Statistician*: design experiments, gather data, decide what the data means, and make predictions

