

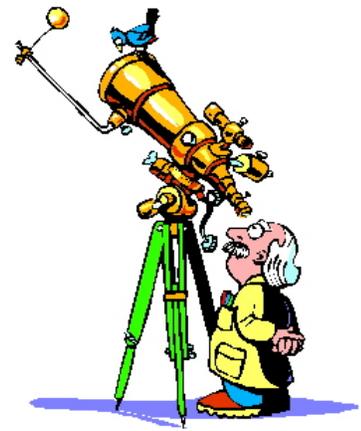
Careers in Physical Science

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Astronomer



- Job Description

- Use principles of physics and mathematics to learn about the nature of the universe
- Solve problems in navigation, space flight, and satellite communications
- May work in planetariums, observatories, or for the federal government (NASA)

- Salary

- An astronomer may make anywhere between \$62,000 and \$125,000 on average

- Education Needed

- Most astronomers have a PhD in Astronomy with other degrees in Physics or Engineering
- After getting a PhD, most take a post-doctoral position
- Astronomers should be strong in math and problem-solving skills. They need to be imaginative to solve some of the problems they face.

Materials Scientist

- Job Description

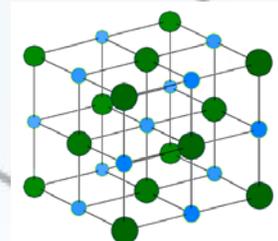
- Study the properties of materials like styrofoam, ceramics, and fabrics
- Research chemical properties of materials, create new materials, make existing materials better
- Work for the government, in a university, or for an electronics company

- Salary

- Average salary is \$82,000

- Education Needed

- Material scientists have a range of degrees from bachelor's to doctoral
- They have a range of specialties including chemistry, engineering, and materials science
- Material scientists are patient and persistent. 99% of their experiments will not work.



Civil Engineer

- Job Description

- Civil engineers design and supervise the construction of roads, bridges, airports, tunnels, etc.
- Civil engineers usually supervise construction projects and may work for a city or state.
- They analyze the safety and timeline of major projects.

- Education Needed

- Bachelor's and Master's degree needed in areas like geology or engineering
- Additional ICE certification necessary
- Engineers need a strong background in math and physics. An open mind and problem solving skills are important

- Salary

- On average, civil engineers make \$64,000 a year.



Technical Writer



- **Job Description**

- Ever wonder who writes those instruction manuals that come with your stereo or television?
- Technical writers create product manuals, brochures, and even web pages
- Need the ability to adapt complex theory into something the average person can understand
- Writers may work for a company or may be freelance.

- **Education Needed**

- Technical writers generally specialize in the area of which they're most knowledgeable
- Degrees in computer science, engineering, and math may be helpful.
- Must be organized, articulate, and able to learn products quickly

- **Salary**

- The salary of technical writers varies, but those who have a staff position make \$60,000 on average