



STEM Careers

Materials Scientist

Job Description: Develop materials, like metals, ceramics, polymers, and composites that other engineers and scientists use for their designs.

What does a Materials Scientist do?

- Create eco-friendly, biodegradable materials using plant parts.
- Come up with new ways to recycle non-metallic components of old computers and make them into fences, park benches, and works of art.
- Create materials that can be used in knee replacement surgeries.
- Design lightweight materials for use in car engines to make them more fuel efficient.
- Study naturally found adhesives such as the glue made by sea mussels to develop new industrial adhesives.
- Develop ceramic materials and make them into useful products such as glassware or fiber optic communication lines.
- Analyze product failure data and laboratory test results to determine causes of problems and develop solutions.

Your Interests:

- Are you good at math?
- Are you creative?
- Is your work detailed?
- Do you like to solve problems?
- Are you interested in how things work?

Outlook: **Green**

Average Salary - \$38.61 hourly, \$80,300 annual

Projected Job Openings - 4,400 over the next 10 years

Education/Program of Study:

- Bachelor's Degree is the minimum requirement
- Master's Degree is required for many positions

Sources:

http://www.sciencebuddies.org/science-fair-projects/science-engineering-careers/MatSci_materialsscintistsandengineers_c001.shtml?From=testb#natureofwork

http://quest.arc.nasa.gov/people/cfs/generic/materials_engineer_112.pdf

<http://www.onetonline.org/link/summary/19-2032.00>