Materials Scientists 19-2032.00





Description: Research and study the structures and chemical properties of various natural and synthetic or composite materials, including metals, alloys, rubber, ceramics, semiconductors, polymers, and glass.

Other Resources:

ONET Link
MyNextMove Link

Sample of Reported Job Titles: Materials Scientist

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Title: 5 - Extensive Preparation Needed

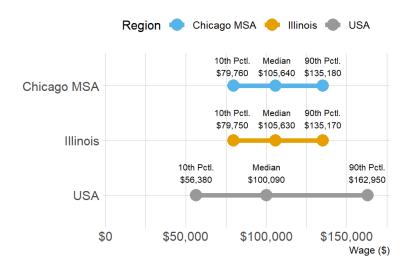
Education: Require graduate school.

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: IBM SPSS Statistics, Microsoft Office Suite, National Instruments LabVIEW, R, The MathWorks MATLAB

Region	Employment	Location Quotient	Median Wage
Chicago MSA	470	2.33	\$105,640
Illinois	530	1.97	\$105,630
USA	6,690	-	\$100,090



Importance

(out of 100)

Frequency

and requestors, such as sponsors and customers.

Conduct research on the structures and properties of materials, such as metals, alloys, polymers, and ceramics, to obtain information that could be used to develop new products or enhance existing ones.	Daily	90
Determine ways to strengthen or combine materials or develop new materials with new or specific properties for use in a variety of products and applications.	Daily	88
Plan laboratory experiments to confirm feasibility of processes and techniques used in the production of materials with special characteristics.	More than weekly	85
Devise testing methods to evaluate the effects of various conditions on particular materials.	More than yearly	84
Prepare reports, manuscripts, proposals, and technical manuals for use by other scientists	More than	84

yearly