Materials Engineers 17-2131.00





Description: Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials.

Other Resources:

ONET Link
MyNextMove Link

Sample of Reported Job Titles: Extrusion Engineer, Materials Development Engineer, Materials Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

Education: Require a four-year bachelor's

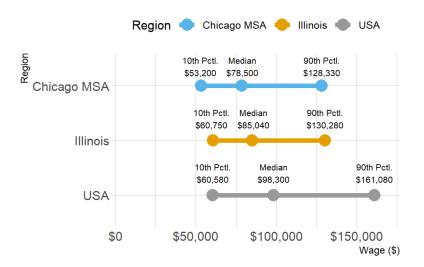
degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Autodesk AutoCAD, C++, Computer aided design CAD software, Dassault Systemes CATIA, Dassault Systemes SolidWorks





Top 5 Core Tasks According to Current Job Holders	Frequency	(out of 100)
Analyze product failure data and laboratory test results to determine causes of problems and develop solutions.	More than weekly	86
Design and direct the testing or control of processing procedures.	More than monthly	84
Monitor material performance and evaluate material deterioration.	More than weekly	83
Evaluate technical specifications and economic factors relating to process or product design objectives.	More than monthly	82
Conduct or supervise tests on raw materials or finished products to ensure their quality.	More than monthly	82



Importance