

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

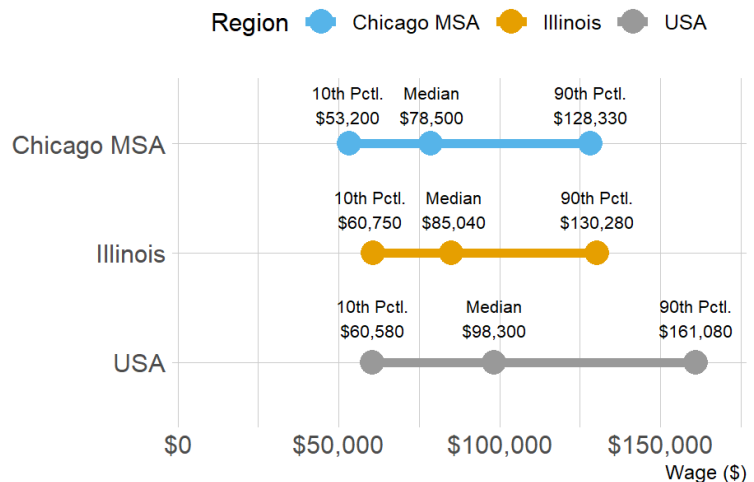
Education: Require a four-year bachelor's degree.

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

Region	Employment	Location Quotient	Median Wage
Chicago MSA	220	0.33	\$78,500
Illinois	250	0.29	\$85,040
USA	21,530	—	\$98,300



Top 5 Core Tasks According to Current Job Holders	Frequency	Importance (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