

MATERIALS

ENGINEER





# MATERIALS ENGINEER

<http://www.fusiongrant.org/educational.php>

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## Description:

A materials engineer evaluates materials and develops machinery and processes to create materials for use in products that meet specialized design and performance specifications. He or she develops new uses for known materials and works with composite materials including: graphite, metal, metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials.

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## Median Wage (as of 2005):

\$71,390

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## Level of Education:

A.A.S., B.S., on-the-job training

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## Job Outlook (through 2010):

5.3% increase in number of jobs

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## Examples of Colleges & Affiliated Programs:

**Cornell University** – Material Science; Mechanical and Aerospace Engineering; Electrical Engineering

**Rochester Institute of Technology (RIT)** – Material Science and Engineering

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## Employers:

**Federal and State Governments** – NASA, U.S. Department of Defense, U.S. Department of Homeland Security; New York State Department of Transportation

**Private Sector** – Xerox; Infotonics Technology Center, Inc.; Corning, Inc.; Proctor & Gamble; Ford Motor Co.; Pactiv Corp.; Alliant Energy

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## High School/College Courses to Take:

Engineering, Physics, Chemistry

Art, Architectural Design, Technology

Mathematics – Statistics, Calculus, Biometrics, Economics, Geometry, Algebra

Oral and Written Communication

Science – Depending on specialization



Cornell University