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A new material that is both highly transparent and electrically conductive could make large screen displays, smart windows and even touch screens and solar cells more affordable and efficient, according to a Penn State team of researchers led by Roman Engel-Herbert, associate professor of materials science and engineering.

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Materials Science and Engineering C: Materials for Biological Applications includes topics at the interface of the biomedical sciences and materials engineering. These topics include: • Bioinspired and biomimetic materials for medical applications • Materials of biological origin for medical applications

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Materials engineers often work in offices where they have access to computers and design equipment. Others work in factories or research and development laboratories. Materials engineers may work in teams with scientists and engineers from other backgrounds. Work Schedules. Materials engineers generally work full time.

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Materials Processing Students, professors, and researchers in the Department of Materials Science and Engineering explore the relationships between structure and properties in all classes of materials including metals, ceramics, electronic materials, and biomaterials.

Materials Science and Engineering

The interdisciplinary field of materials science, also commonly termed materials science and engineering, is the design and discovery of new materials, particularly solids. The intellectual origins of materials science stem from the Enlightenment , when researchers began to use analytical thinking from chemistry , physics , and engineering to understand ancient, phenomenological observations in metallurgy and mineralogy .

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Home | Department of Materials Science and Engineering

The first academic department of its kind in the world, the Department of Materials Science and Engineering at Northwestern University leads the field in materials innovation and education. Driven by curiosity and the thrill of discovery, faculty members use a transdisciplinary approach to connect fundamental science with engineering research, enabling technologies that improve our lives.

University of Florida - UF Materials Science & Engineering

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Materials Science and Engineering (MSE) combines engineering, physics and chemistry principles to solve real-world problems associated with nanotechnology, biotechnology, information technology, energy, manufacturing and other major engineering disciplines.

Materials Science and Engineering

Materials engineers are involved in the extraction, development, processing, and testing of materials used to create a diversity of products. They work with metals, ceramics, plastics, semiconductors, and combinations of materials called composites to create new materials that meet certain mechanical, electrical, and chemical requirements.

Materials Science and Engineering

"After 25 years as a Buckeye, it is an honor and a privilege to guide the department as it continues its leading role in materials science and engineering education and research," Mills said.

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