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The field of materials science and engineering sits at the intersection of chemistry, physics and engineering, with increasing expansion into mathematics, computing, machine learning, manufacturing and imaging, plus economics, sustainability and public policy.

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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.