

# Materials Science & Nanotechnology

## Materials Science

Our attorneys have experience across a broad range of materials science technologies, including semiconductor substrate engineering and processing, crystal growth, polymer design and synthesis, metal alloys, glasses, transparent conductors, materials metrology, and exotic materials for incorporation into lighting, electronic, energy harvesting, and energy storage applications.

Materials science is increasingly an interdisciplinary field, interfacing with chemistry, biology, electrical engineering, and physics. With our academic backgrounds and our combined decades of experience preparing and prosecuting patent applications related to materials science, we are perfectly positioned to handle these emerging interdisciplinary inventions.

## Nanotechnology

Nanotechnology is technology on a very small scale. Nanotechnology can improve traditional technologies by making them faster, more efficient, and more accurate. Amazing achievements are frequently reported in this fast-moving field. As these new nanotechnologies begin to make the transition from the bench top to commercial use, strong intellectual property protection is essential.

We deal with a wide variety of nanotechnologies, including nanoparticles, polymeric materials, dendrimers, micro/nano-particles, microfluidics, semiconductor devices, and organic functional materials such as organic light-emitting diodes (OLED) and organic electro-optic materials and devices.

COJK offers high-quality legal counsel, complemented by technical and scientific understanding, to help protect valuable innovations. Our attorneys hold M.S. and Ph.D. degrees in nanotechnology, materials science, electrical and mechanical engineering, chemistry, and biology. Given the far-reaching and interdisciplinary nature of nanotechnology, the firm offers a comprehensive approach, merging the skills of our life sciences, electrical, mechanical, and chemical practice groups.