

Materials Science

Materials Science—Fine Tuning and Protecting Valuable Innovations

As an interdisciplinary field, materials science focuses on the microstructure of materials for the development and design of new materials and their application in a range of products. Protecting such complex intellectual property assets requires legal counselors with equally diverse legal skills and sophisticated technical knowledge. At Marshall, Gerstein & Borun LLP, we draw on our attorneys' deep scientific and legal backgrounds to help clients identify and maximize the commercial value of their inventions.

Assisting clients at every step

We recognize that innovation is not a one-time event. We advise clients at each point in the business or product lifecycle, believing that today's inventions can hold significant, still-unexplored promise long into the future. Our attorneys work with clients to:

- Develop innovative ways to describe and characterize newly developed materials
- Assist in the identification of patentable innovations and develop strategies for protecting all aspects of the innovation including new material development and the applications in a variety of industries
- Develop patent portfolios to fully protect the innovation and aid the client in exploiting the innovation across a variety of industries

Industry specific knowledge and firsthand experience with clients' products and properties

Drawing on our close, long-term professional relationships with materials science clients, we understand the unique market forces and the IP-related issues facing businesses in a broad range of sectors. In addition, we have a long history counseling clients that develop and deliver market-leading products. We advise privately held and publicly traded companies whose research and manufacturing developments include the following:

- Ceramics
 - Material development and processing
- Electronic Materials
 - Integrated circuit development
 - Optics
 - Semiconductor development and fabrication
 - Superconducting materials
 - Wearables
- Metallurgy
 - Foundry casting
 - Medical devices
 - Metal processing
 - Specialty alloys
- Nanotechnology
 - Nanolithography
 - Sensors fabrication and development

- Polymers Science
 - Additive development
 - Biological polymers
 - Cosmetics
 - Flexible films and fabrication processes
 - Food and Drug Packaging
 - Thin films
 - Plastics and fabrication processes

Cross-disciplinary counsel

As manufacturing processes and products evolve at an increasingly rapid rate, our multidisciplinary team can help clients develop, customize and strengthen operation-wide IP strategies. We counsel clients in the following:

- Domestic and foreign patent prosecution, enforcement, and litigation
- Patent due diligence in corporate and capital funding transactions
- Licensing agreements
- Patentability and freedom to operate Investigations
- Whitespace analysis
- Invalidity investigations
- Post grant proceedings