OPTICS

The field of optics has a significant impact on today's communications, computing, electronics, medical devices, and imaging systems.

Our firm's practice includes experience with:

- Optical communications networks, including Dense Wave Division Multiplexing, free space communications, and access networks
- Digital imaging used in the medical field, such as X-rays, optical coherence tomography, and magnetic resonance imaging
- Optical switches
- Fiber optics
- Adaptive optics
- Optical manufacturing systems
- Photonics, including opto-electronic devices such as light-emitting diodes (LEDs)
- Acousto-optic devices
- Quantum encryption
- Holographic systems
- Solar power generators and tracking systems
- Lasers, including laser processing and identification of materials
- Laser metrology
- Quantum cascade laser materials
- Ultrashort pulsed laser systems
- Spectroscopy
- Sensing and tracking systems
- Polarization maintaining amplifiers
- Dispersion compensation systems and devices

The scientific backgrounds of our attorneys and technology specialists provide in-depth understanding of our clients' optical innovations, enabling our firm to provide the highest-quality service and legal protection. Our attorneys have backgrounds and advanced degrees in electrical engineering, computer systems engineering, mechanical engineering, and physics. We have industry experience in laser materials processing and laser systems integration.

Hamilton Brook Smith Reynolds has assisted clients in areas such as laser materials processing for electronic displays, laser medical and therapeutic applications, quantum cascade laser materials, ultrashort-pulsed lasers, and use of lasers for precise measurement of jet engine functionality.

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