

The Photoforces Project

We seek postdoctoral and foreign guest researchers to participate in research related to photon momentum and instrumentation for measuring radiation pressure. With the success of fiber and disk laser technology, high-power lasers are increasingly popular in manufacturing processes such as welding, cutting, laser-additive manufacturing (3D printing), and aerospace. Laser power measurements by means of photon momentum are faster and inherently *in-situ*. Our Group has demonstrated multi-kilowatt laser power measurements by means of radiation pressure and our program continues to grow in areas ranging from fundamental research, to instrumentation, to establishing high accuracy measurements traceable to the kilogram. Specific research areas include high-reflectance mirrors, MEMs, microfabrication and modeling. Our Group is located at The National Institute of Standards in Technology in Boulder, Colorado. Boulder is a welcoming and relatively small international city at the foothills of the Rocky Mountains with access to world-class rock climbing, biking, skiing and miles (kilometers) of trails in local parks.

For more information, contact Dr. John Lehman or Dr. Paul Williams at NIST
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