

WILSON SONSINI

Sam Riddle

PATENT AGENT

Patents and
Innovations
Boulder

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FOCUS AREAS

Diagnostics, Life Science
Tools, and Deep Tech
Patents and Innovations
Quantum Computing
Semiconductors

HIGHLIGHTS

- Advanced Expertise in Physics and Materials Science Theory**
Prior to joining the firm, Sam worked as a doctoral-level theorist. His research operated on the cutting edge where quantum theory meets the real world.
- Quantum Technology Specialist**
Sam proudly partners with clients innovating in the quantum technology space.
- Interdisciplinary Science and Engineering Background**
Sam started his career as an engineer and is passionate and involved with innovation across science and engineering disciplines.

EXPERIENCE

Sam Riddle is a patent agent in the Boulder office of Wilson Sonsini Goodrich & Rosati, where he focuses on quantum and materials science innovations. Sam's doctoral research focused on the differential geometry and topology of quantum mechanical observables, and how these features give rise to the energetic and physical observables we see as chemistry and thermodynamics. Specializing in this area necessitates a strong background in advanced mathematics and theory, and Sam does not shy away from highly technical problems. Simultaneously, his experience working on interdisciplinary problems has also honed his ability to understand and connect concepts from different areas of science, making him a versatile team member of the firm's patents and innovations practice.

As a science educator in materials and physical chemistry, he is able to translate complex scientific ideas for a wide range of audiences. Whether he is working with other patent professionals, researchers, inventors, or stakeholders, Sam is committed to facilitating impactful innovation through clear communication, advanced expertise, and strategic problem solving.

CREDENTIALS

Education

- Doctoral Candidate, Department of Physics, Materials Science, Colorado School of Mines
The Geometric Origins of Bonding, Structure, and Elasticity in Non-Magnetic FCC Transition Metals (expected 2025)
- B.S., Metallurgical and Materials Engineering, Colorado School of Mines

Associations and Memberships

- Member, American Physical Society

Admissions

- U.S. Patent and Trademark Office

TECHNICAL FLUENCY

Chemistry and Material Science

- Chemistry
- Materials chemistry