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### **Quantum diamond sensors**

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The nitrogenvacancy (NV) quantum defect in diamond is a leading modality for magnetic, electrical, and temperature sensing at short length scales (nanometers to millimeters) under ambient conditions. This technology has wide-ranging application across the physical and life sciences from NMR spectroscopy at the scale of individual cells to improved biomedical diagnostics to the search for dark matter. I will provide an overview of quantum diamond sensors and their diverse applications.