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# Nanowire

National Cancer Institute

## Source

National Cancer Institute. *Nanowire*. NCI Thesaurus. Code C62376.

A nanometer-scale wire consisting of metal atoms, silicon or other materials that conduct electricity. Nanowires are one-dimensional, and exhibit unique electrical and optical properties. They are built atom by atom on a solid surface, often as part of a microfluidic device. In addition, they can be coated with molecules such as antibodies that will bind to proteins for both basic science and clinical applications.