



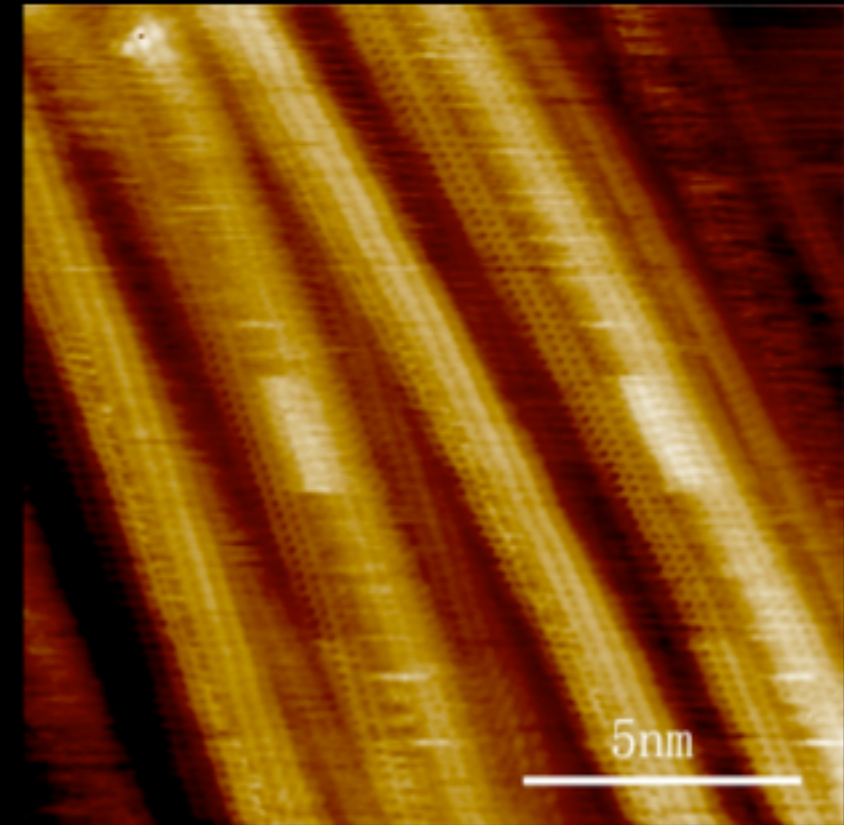
Methods Reduce Cost, Enhance Quality of Nanotubes

Johnson Space Center

**SouthWest NanoTechnologies Inc.
Norman, Oklahoma**

Originating Technology/NASA Contribution

- ◆ In order to reduce spacecraft weight without sacrificing structural integrity, NASA is pursuing the development of materials such as single-walled carbon nanotubes
- ◆ Typically manufacturing these materials was expensive and inefficient



Partnership

- ◆ Small Business Innovation Research (SBIR) contracts with SouthWest NanoTechnologies Inc. (SWeNT) pursued the development of a new nanotube production method
- ◆ SWeNT increased production capacity while decreasing cost and developing higher quality nanotubes

Product Outcome

- ◆ Allows customized orders for hundreds of customers including aerospace, nanomaterials, and laboratory clients
- ◆ Increased production a hundredfold while lowering costs tenfold
- ◆ May allow for advanced body armor, printable electronics, and more affordable solar panels