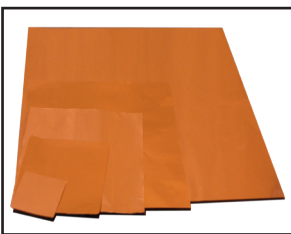
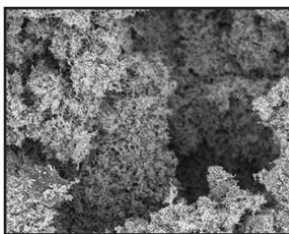


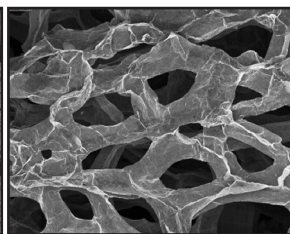
Patterned VACNT



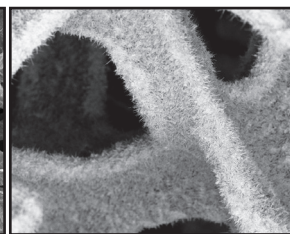
Monolayer CVD Graphene™



CNT/CNF on Ni Foam



CVD 3<sup>D</sup> Graphene™



SiNW on Carbon Foam

CVD offers access to our Application Lab where Nano/Solar/Energy material processes can be developed in conjunction with CVD/First Nano research scientists. We strive to accelerate commercialization of Nano/Solar/Energy Fields.

### FEES

- Unassisted Lab time:  
\$325/hr, minimum 6 hrs.
- Assisted Lab time:  
\$350/hr, minimum 6 hrs.
- Analytical analysis starting at \$175/hr, minimum 1 hr.
- Minimum sample order: \$500
- Volume discount available for larger orders
- Special process development and system customization available upon request

### CARBON NANOTUBE SYNTHESIS

- Vertically Aligned CNT, SW, DW and MW on Si, Quartz, and various substrate
- Horizontally Aligned SWCNT
- PECVD CNF
- Wafer Scale CNT growth up to 4"
- Multi wafer CNT growth for volume production

### GRAPHENE SYNTHESIS

- Multilayer CVD Graphene™ on Ni
- Monolayer CVD Graphene™ on Cu
- Multilayer CVD 3<sup>D</sup> Graphene™ on Ni Foam
- Multilayer CVD 3<sup>D</sup> Graphene™ Foam

### 3D CELLULAR MATERIALS

- Ultralight Carbon Foam
- CNT Paper

### SEMICONDUCTOR NANOWIRES

- Si Nanowire
- ZnO Nanowire
- GaN Nanowire

### CATALYST WAFERS

- Vertically and Horizontally Aligned Carbon Nanotubes
- Vertically and Horizontally Aligned Silicon Nanowires

### SUBSTRATE COATING

- Catalyst layer: Fe, Ni, Co, Au, etc.
- Conductive layer: Mo, Cr, Al, Au, etc.
- Ion assisted Thin Film Deposition: SiO<sub>2</sub>, TaO<sub>2</sub>, TiO<sub>2</sub> etc.
- Other materials available upon request

### APCVD

- TCO - F:ZnO
- Low - E
- Photovoltaic

### LPCVD

- TCO - B:ZnO

### EPITAXIAL FILMS

- Si for Solar Cell

### LAB EQUIPMENT LIST

- EasyTube® 2000
- EasyTube® 3000
- EasyTube® 4300
- EasyTube® 6000
- Small E-beam Evaporator for Catalyst Deposition
- Large E-beam Evaporator for volume ion assisted Optical Thin Film Multi-Stack deposition on flat and curved substrates with high uniformity and volume Catalyst Wafer Deposition
- Sample Preparation Lab

### ANALYTICAL EQUIPMENT

- Carl Zeiss SEM
  - Backscatter Detector
  - Secondary Electron Detector
  - STEM Detector
- Optical Microscope
- Four Point Probe
- Transmission and Reflection Measurements
- Thermo Scientific Confocal Raman DXR Microscope
- 3D Olympus Video Microscope

Lab time available to end-users. Contact us at (631) 981-7081 with your specific needs and we will provide you a quotation or visit our website at [www.cvdequipment.com](http://www.cvdequipment.com)



# CVD Materials Corporation

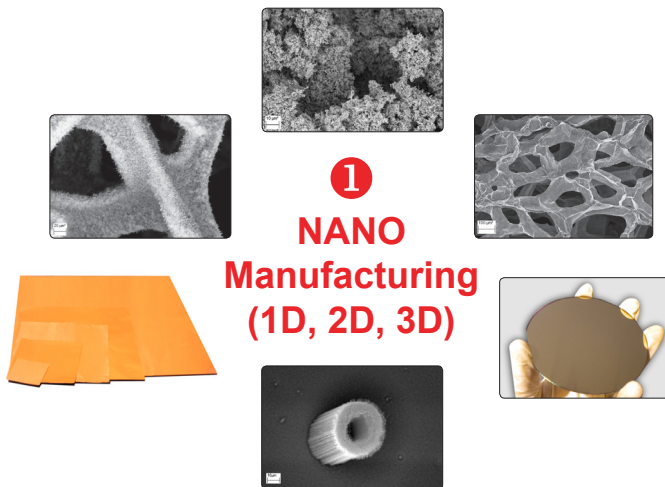
[www.cvdmaterialscorporation.com](http://www.cvdmaterialscorporation.com)



## 3 NANO enabled Products



## 2 NANO to MACRO



## 1 NANO Manufacturing (1D, 2D, 3D)

CVD Materials Corporation, a subsidiary of CVD Equipment Corporation

1860 Smithtown Ave. | Ronkonkoma, NY 11779 | Tel 631.981.7081 | Fax 631.981.7095 | [www.cvdmaterialscorporation.com](http://www.cvdmaterialscorporation.com) | [www.cvdequipment.com](http://www.cvdequipment.com)