



# WE GET IT.

Developing in-house advanced expertise in nanomaterials is expensive and time intensive. That shouldn't stop you from utilizing them to improve your products.

## Cerion Nanomaterials Can Help

As a global leader in designing, scaling and manufacturing custom nanomaterials for industry, Cerion provides the expertise and materials you require, while your team stays focused on advancing the development and delivery of your products and systems.



Design

### Customization

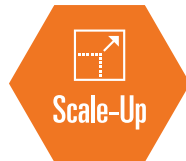
Precise design of nanomaterials, for both size and technical attributes

### Rapid Innovation

Efficiently establish proof of concept and enable a path towards commercialization

### Product Integration

Over a decade of experience ensuring nanomaterial compatibility in customer products



Scale-Up

### Designed to Scale

Robust processes ensure nanomaterials are designed to scale from grams in the lab to metric tons for manufacturing

### Prototype Production

Small-scale production capability for in-house and customer qualification trials



Manufacture

### Production Flexibility

Utilize Cerion manufacturing or on-premise facilities

### Low & High Volume

Cost-effective manufacturing built around lean principles, just-in-time delivery and industry-leading low capital intensity

### Manufacturing Scale

Hundreds of metric tons of capacity and growing

## Custom Nanoparticle Solutions for Your Product or System

Cerion has been working with companies around the globe for more than 10 years to design and manufacture custom nanomaterials that enhances the performance of their products or systems.

Serving Industry, Defense,  
and Life Sciences

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

# Providing Full Lifecycle Customer Support for Custom Nanomaterial Design, Scale-Up and Manufacturing



Design

Precision design and customization of both nanoparticle size and technical attributes



Scale-Up

Robust processes to scale materials from prototype to low and high-volume production rates



Manufacture

Industry-leading, cost-effective manufacturing systems and production capacities

## Custom Nanoparticles

Custom designed nanomaterials tailor made to maximize performance and ensure integration into your product or system.

**Known for our degree of customization, we build nanoparticles from the bottom up, enabling precise control over:**

- Size
- Size Distribution
- Morphology
- Surface Charge

**Expertise in delivering highly engineered nanoparticle systems:**

- Homogeneous alloys
- Doped particles
- Core / Shell
- Surface functionalization

**Focus on integration with your product or system:**

- Wide pH ranges for aqueous suspensions
- Experience with 40+ organic solvents
- Extensive library of organic and polymer capping agents
- Processes to meet particle and dispersion purity requirements

**Diverse product formats, for ease of integration into your manufacturing process:**

- Aqueous dispersions
- Nonaqueous dispersions
- Powders
- Pastes
- Dispersible "wet cakes"

## Customer Focused Approach

Unique & differentiated service offering

- Custom designed solutions for your product or system
- No competition with customers
- Customer-centric approach to intellectual property

## Customers

Experts in product & system development seeking to leverage nanomaterials to enhance performance



## Cerion

Experts in providing nanomaterials to support customer requirements - from research through manufacturing

## Representative Materials

- Barium
- Boron
- Ceria
- Cobalt
- Copper
- Gold
- Iron
- Nickel
- Niobium
- Palladium
- Platinum
- Silica
- Silver
- Titania
- Tungsten
- Yttrium
- Zinc
- Zirconia
- And more...

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Ready to learn more? Visit: [www.CerionNano.com](http://www.CerionNano.com)