



Open Innovation Drives Competitive Advantage

NineSigma's unrivaled open innovation process quickly connects companies to the world's largest network of innovation providers to find unobvious, often breakthrough solutions to their most critical technology and business challenges. From photobiology to functional foods, optoelectronics to oleochemicals, NineSigma's breadth and depth of proven experience is helping companies drive competitive advantage by accelerating time to market and improving bottom line results.

"We use NineSigma when we are looking for alternative approaches to solve problems or where a solution from a different industry may help."

- Todd Abraham, SVP Global Research Nutrition and Technology Strategy, Kraft

"The companies and individuals NineSigma connected us to provided us with ready solutions to a materials need that we have been unable to address with our internal expertise. NineSigma delivered fast and significant value to our program."

- Robert Finocchiaro, Ph.D., Technical Director, 3M

NineSigma has expertise across diverse disciplines

Food Technology

- Additives, ingredients
- Functional foods
- Nutrient Analysis
- Packaging
- Processing Equipment
- Safety, Storage
- Sensory analysis

Electrical & Computer Engineering

- Communications, RF technology
- Electronic components
- Electronic packaging
- Electronic systems
- Embedded systems
- Human-computer interaction
- Instrumentation and controls
- Nanotechnology
- Optoelectronics
- Semiconductors, microelectronics
- Sensors, MEMS
- Software, smart algorithms, CAD

Materials Engineering

- Abrasives
- Adhesives, sealants
- Biomaterials
- Ceramics, glass
- Coatings, ink
- Composites
- Elastomers, rubber
- Lubricants
- Metals, alloys, tribology
- Polymers, plastics
- Rheology
- Solvents, cleaners
- Textiles, fibers

Green Technology

- Biodegradable materials
- Biofuel
- Clean air
- Ecoforestry
- Energy conservation
- Green building
- Hazardous waste treatment
- Renewable energy
- Sustainable packaging
- Wastewater treatment

Biotechnology & Biomedical

- Bioengineering
- Biomimicry
- Enzymes, catalysts
- Laboratory equipment
- Medical equipment
- Nutraceuticals
- Pharmaceuticals
- Photobiology

Mechanical & Industrial Engineering

- Aerospace
- Automotive
- Control equipment
- Hardware, tools
- Heat transfer
- HVAC
- Industrial engineering & design
- Machinery, mechanisms
- Marine
- Manufacturing equipment
- Mechatronics
- Microfluidics
- Pumps, filters, pipes, tubing

Chemical

- Additives
- Agrochemicals
- Inorganic
- Oleochemicals
- Organic
- Petrochemicals
- Pharmaceuticals
- Polymers

Case Studies

Consumer Goods: Even-Heating Microwave Technology

Client Need: Fortune 500 consumer products company seeks technologies that can be adapted to provide even-heating of food in microwave oven.

Results: Responses received from Europe and N. America. A European R&D organization proposed a solution involving the processing of biological matter and was selected by the client to further develop the technology to fit the consumer goods application.

Packaging: Biodegradable Packaging

Client Need: Global food company seeks environmentally-friendly packaging materials as an alternative to oil-based plastics.

Results: Nine proposals received from 5 countries across 4 continents. Company in Spain selected for joint development contract.

Electronics: Cathodic Disbonding/Loss of Adhesion

Client Need: Global electronics company seeks new methods to eliminate loss of adhesion of a non-conductive coating on a plated metallic substrate.

Results: Eight highly targeted responses received from Europe, Africa and U.S. Client contracted with a prominent research institute with extensive experience in the topic area for the development of an innovative new material.

High Tech: Sub Sea Wireless Communication

Client Need: Global 500 oil company seeks wireless sub sea communications system to reduce cost and improve transmission.

Results: A record-level 72 responses received from medium-size to Fortune 100 companies, research groups, universities and leading experts. Breadth of technologies submitted including acoustics, lasers, electro-magnetic, hybrid, RF and more. Promising technologies have been short-listed and selection process is underway.

Bio/Pharma: Antibody Purification Media

Client Need: Major biomedical company seeks to improve existing antibody purification process.

Results: The challenge acknowledged by biomedical community to be extremely difficult. Seven proposals with promising solutions received and 4 of 7 proposals being pursued.

Food & Beverage: Automated Commercial Food Service Equipment

Client Need: Fortune 500 food company seeks prototypes of highly automated commercial food service equipment.

Results: More than 10 potential solutions received from Europe, Australia, India and U.S. Client signed \$1M+ contract with Australian company and is moving into Phase 2 of development.

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