



# GRAFOID

## A COMPLETE SOLUTIONS GRAPHENE COMPANY

### Leading the Graphene Revolution

Graphene is the revolutionary ‘wonder material’ that will forever change the world.

GrafoID Inc. endeavors to become a world-leading graphene research, development and investment company. It establishes international standards for the production of high-purity, economically scalable, functional graphene and develops graphene applications for the betterment of humanity with like-minded partners.

GrafoID stands at the forefront of the Graphene Revolution. Its financial and scientific investments result in a novel, one-step, patent-pending process for the large-scale extraction and mass production of pristine, few layer graphene, sourced directly from raw, unprocessed graphite ore, leaving the lowest possible ecological footprint. This unique, proprietary process results in what GrafoID regards as the global standard for economically scalable high-purity graphene products — trademarked as MesoGraf™ — that can be tailored to both industrial and commercial applications.

### What is Graphene?

- A two-dimensional, one-atom-thick allotrope of Carbon, derived from natural Graphite
- The Strongest Material ever Measured
- The Thinnest Material Known to Science
- The Stiffest Material in the World
- Transparent, Stretchable, Highly Flexible & Incredibly Light
- The Most Impermeable Material on Earth
- The World's Most Conductive Material
- Incredibly Energy Efficient

Graphene holds the potential to bring about a new era in material science. A potentially ‘disruptive’ technology, the addition of graphene to most any material (including plastics, polymers, metals, batteries, etc.) tremendously enhances the characteristics of said materials. The properties of graphene are truly amazing and the potential applications extend across every industrial sector. The total graphene industry size impact exceeds \$100 billion.

*“Graphene, on its own, can't really make anything. But graphene can make everything better.”*

Gary Economo  
Chief Executive Officer  
GrafoID Inc.

### The GrafoID Advantage – Commercializing Graphene

The greatest challenge to commercializing graphene is being able to produce high-quality material, on a large scale at a low cost — and in a consistent, reproducible manner.

**The key to successfully commercializing graphene is based on 3 primary factors:**

- 1.) Having unlimited access to a secure source of high-grade, high-quality graphite. GrafoID has partnered with Focus Graphite Inc. (TSX-V: FMS | OTCQX: FCSMF | FSE: FKC), the source of ultra-high-grade graphite ore from its flagship Lac Knife graphite project in Québec. The ore is transformed at GrafoID's production facilities in Kingston, Ontario and, later this year at its U.S. facility in New Jersey.
- 2.) Being able to produce pristine graphene on an economically scalable basis. GrafoID has successfully developed a proprietary, environmentally friendly, one-step process to produce pristine graphene in bulk with MesoGraf™ and is currently producing graphene on a commercial scale.
- 3.) Partnering with the right players in the development of the right applications. GrafoID has launched a global vertically integrated platform to produce, functionalize and commercialize graphene with numerous blue-chip joint venture partners. GrafoID is the global platform that delivers mine-to-market graphene products.

GrafoID excels in all three aforementioned areas, effectively addressing the fundamental barriers to graphene commercialization. GrafoID brings world-leading expertise in graphene, resolves commercial scalability issues, tailors graphene for unique applications, and provides solutions for achieving success.



# MesoGraf™ – Redefining Graphene

The world's first trademarked graphene, Grafoid's MesoGraf™ is a touchstone for graphene commercial application development.

Grafoid's technology — developed by the National University of Singapore, Graphite Zero Pte Ltd. and Grafoid's President, Chief Technology Officer and Founding Partner, Dr. Gordon Chiu — produces pristine, high-energy density, functional MesoGraf™ graphene at significant gross margins. The market potential for MesoGraf™ and its derivatives and hybrid materials remains immeasurable.

Grafoid's unique patent-pending production process avoids harsh chemicals — normally employed in graphene production — that damage the material and diminish its extraordinary properties, creating a high-yield, high-energy density graphene. MesoGraf™ achieves Grafoid's vision of a global standard for economically scalable graphene products that can be tailored to specific industrial, commercial, military, biomedical, and humanitarian applications.

Grafoid believes MesoGraf™ is a 'game-changer.' Why? Because MesoGraf™ enables the creation of new materials and products from a low-cost, high-purity graphene in virtually all industrial and commercial sectors. Grafoid offers the most direct, clearest, fastest, affordable way toward graphene's commercialization on a global scale.

## The Grafoid Global Platform

Grafoid has entered into a number of high-profile joint venture application development relationships with leading industrial and academic partners around the world for the development of next-generation products. The Company is engaged in the development of graphene patent joint ventures globally in the areas of renewable energy, advanced polymer materials, bio-medicine, thermal dispersion technologies, coatings, and a number of classified material development projects. The founding of joint venture partnerships to develop next-generation MesoGraf™-based products drive Grafoid's business model. Grafoid's extensive joint venture relationships — 15 currently — demonstrate the Company's global market penetration and acceptance attained over a 24-month period.

Grafoid's process, intended to lead the global commercialization of graphene, is unique. No other known graphene produced can match the characteristics of MesoGraf™ — low cost, mass produced, defect free and functional. Grafoid believes that, for the first time, industry will have access to high quality graphene in bulk at affordable prices.

*"The key vendors dominating this marketspace are BASF SE, Grafoid Inc., IBM Corp., and Samsung Electronics Co. Ltd."*

Infiniti Research Limited  
(October 2013)

## How Grafoid Compares

	GRAFOID	Competitors
Sells graphene solutions	✓	✗
Unique, proprietary, one-step process to produce economically scalable graphene	✓	✗
A diverse company that will not depend on the success of one application	✓	✗
Partners with industry leaders worldwide to advance joint applications	✓	✗
Positioned to generate revenue from every market sector	✓	✗
MesoGraf™ – Grafoid's vision of a Global Standard for Graphene	✓	✗
Environmentally friendly and sustainable	✓	✗

## Partnerships



## Acquisitions



## Management Team

Jeffrey York  
Chairman

Gary Economo  
Chief Executive Officer

Dr. Gordon Chiu, B.Sc., M.Sc.,  
MSTP recipient, ND  
President & Chief Technology Officer

Judith Mazvihwa-MacLean  
Chief Financial Officer

Chester Burtt  
Director of Communications

Wayne Onello  
Vice President of Operations

Thomas H. Cruikshank  
Strategic Advisor

## Contact

GRAFOID INC.

130 Albert Street, Suite 912  
Ottawa, Ontario K1P 5G4  
CANADA

T: 613.238.7417

F: 613.241.8632

E: info@grafoid.com