

**Versarien**<sup>®</sup>  
Advanced  
Composites



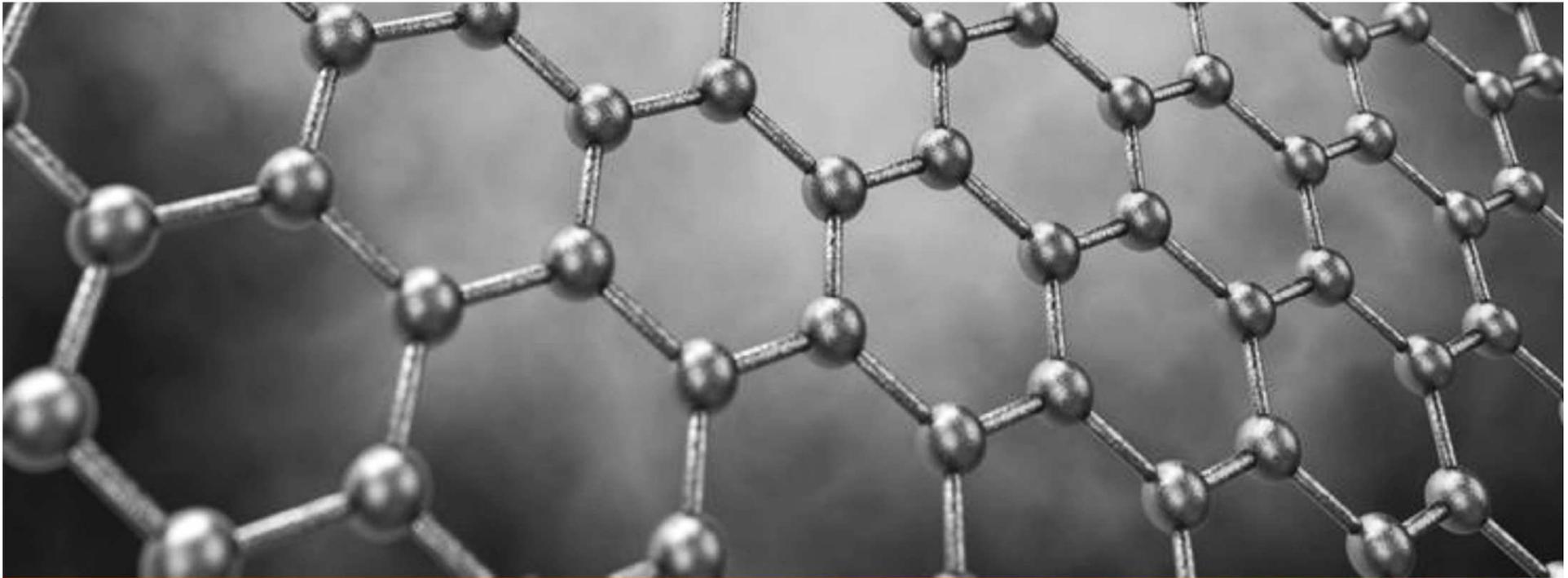
**2-DTECH**  
Two dimensional materials

# Versarien Advanced Composites

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## The Commercial Picture

- **Current global market value for Graphene is estimated to be < US \$50M growing to more than \$390M by 2024.**
- **Complicated by the fact that there are many different types of Graphene and many target markets.**
- **Each type of “Graphene” offers a different set of properties depending on the form in which it arrives.**
- **Similarly, each target market also requires different performance levels and cost targets.**



# Versarien Capabilities

# Tier 1

## CURRENT CAPABILITIES

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- **3D Printable Filament**
- **Master Batch Pellets**
- **SLS Powders**
- **Composite Pre-Preg Materials**
- **Thermal interface material**

# Tier2

## EMERGING CAPABILITIES

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- **Battery technology**
- **Supercapacitors**
- **Coatings**
- **Printable Inks**
- **Dental Prostheses**
- **Packaging**

# Tier 3

## FUTURE CAPABILITIES

- **Medical Research (Drug Delivery Systems)**
- **Electronics (Devices)**
- **Fuel Cells**
- **Photovoltaics (Solar panels)**
- **Membranes**
- **Smart materials**

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