

## Cameron Runte

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## Introducing FLLTER, a division of Grafoid Inc for economical, sustainable, and scalable graphene-based water treatment.

FLLTER Inc. is a privately-owned water filtration technology company launching its global operations in 2020. Headquartered in Kingston, Ontario (Canada) within the Grafoid Global Technology Centre, we are a growing business that is scaling up our manufacturing capacity of disruptive graphene-based materials for use in our flagship water filtration products called the M1 FLLTER™ and G1 FLLTER™. Our production quality and output scale will meet market demands for consumer products, industrial opportunities, and municipal treatment systems while making a positive and cost-effective impact on the global socioeconomic challenges surrounding clean water purification and water security. FLLTER Inc. relies exclusively on the unique material production methods developed and patented by Grafoid for our source of Mesograf™ and Graphene Oxide raw materials, which we subsequently process further into the M1 FLLTER™ and G1 FLLTER™ formulations that are added directly into conventional water treatment devices that would similarly hold a loose material such as granular activated carbon (Figure 1). This presentation will primarily highlight the technical performance of the M1 FLLTER™ and G1 FLLTER™ formulations for specific application verticals within the water treatment industry. This presentation will additionally highlight case studies and continued product research and development initiatives ongoing at FLLTER Inc. that will solidify our position as an industry leading organization for graphene-based water treatment technology in the years to come.

### Figures



**Figure 1:** Overview of the materials within a standard FLLTER™ product. Each material labelled within the above image is currently undergoing NSF certification testing for compliance with international standards surrounding water treatment.