

We are looking for three Research Engineers and Scientists to develop graphene based supercapacitors for emerging commercial applications.

In collaboration with industry partners we have developed a novel, porous, inert, graphene based micro-pore rich monolithic, layered composite. Porosity, surface area and pore size are highly tunable while preserving mechanical stability and electrical conductivity. This makes it an ideal electrode material for supercapacitor material ([US Patent 9,691,916, 27/06/2017](#)).

We have a strong development team working on its use case for emerging technologies such 5G-IoT, wearable electronics, medical implants (e.g. see Neuralink) and satellites (e.g. see CubeSat) which require new energy storage system to handle peak power and reliability requirements where (small) size and form factor are crucial.

We are looking for passionate research engineers and scientists at all levels to join my group at the Office of Industry and Innovation (OII) at Centre for Advanced 2D Materials. The material platform has been already benchmarked against the industry workhorse of activated carbon and we have just started multiple industry collaborations both locally and internationally validate specific use cases.

What Will You Do?

- Work closely with industry partners to study their applications' requirements and develop the value proposition.
- Identify new opportunities in new and existing applications that can benefit our platform technology.
- Present your designed solution to the customer articulating its technical and business value.
- Develop high through put process technology to validate commercial viability.

What Are We Looking For?

- Excellent people skills and communication skills
- Bachelor's /Master's / PhD's degree in Physics/ Material Science and Engineering or relevant area
- Prior experience in nanomaterials/ energy storage device, ideally in research, applications engineering or technical development in industry will be favourably considered
- Being a critical thinker and you have great problem-solving skills
- Sense of ownership and pride in your performance and its impact on team's success
- You are a true team player, you thrive in fast-paced and agile environment, you enjoy working internationally
- You have great interpersonal and communication skills and you are excited by challenges
- A detailed understanding of the key technologies involved in the energy storage segment is a plus but not a must.