

Israel Gago, Ph.D.

Advanced Composites Specialist

Digital Presence



Email



LinkedIn



Scholar

Technologies

- Graphene-based coatings, paints & composites.
- Thermoelectric, ceramic & polymer composite systems.
- Cementitious & ceramic thermo-electric systems.
- Polymer-fibres formulations & functional additives.
- Composite design for energy & aerospace-defence.
- Load sensing, EMI shielding & functionalization.
- Materials R&D, testing, characterization & validation.
- EU & national R&D funding & project delivery.
- Start-up, IP & tech transfer experience.

EU Alignment

- EU citizen with full right to move across EEA.
- Available for relocation, project-based missions, and international travel.
- Experience at Graphene Week, AUXDENFECE, EC, SP MoD (COINCIDENTE & DESEi+d), EDA & NATO.

Summary

Ph.D. in Engineering with over 10 years of experience in nanotechnology and advanced composites, specialising in next-gen materials based on graphene and ceramics. My work spans aerospace, energy and marine sectors, with a focus on TRL 3–6 development of multifunctional and intelligent composite systems. I have led publicly and privately funded projects (>€1.2M) addressing ballistic, blast and fire protection, anticorrosion and antifouling coatings, and thermoelectric materials for harsh environments. I have served as an independent expert evaluating defence R&D proposals for the European Commission (PADR, EDIDP). My experience extends to IP management and technology transfer through start-up leadership and collaborative work with industrial and institutional partners. My current developments focus on CRM-free materials, fully aligned with the EU SSbD framework and the Critical Raw Materials Act, supporting strategic autonomy in defence and security applications.

Selected Experience

- Independent consultant and expert evaluator for private investors, EU programmes and national innovation agencies (2019–present).
- CTO and co-founder at Nanocarbonoids, a university spin-off (2018–2024).
- Nanotechnology applications R&D at the Technical University of Cartagena (UPCT), working on energy, sustainability and dual-use technologies (2016–2023).

Key Facts

- Hands-on experience integrating graphene-based and ceramic nanomaterials for multifunctional composites.
- >10 national and international R&D projects.
- 3 patents granted with substantive examination.
- >25 sci-tech works (thesis, papers, book chapters, conferences).
- Ph.D. in Industrial Technologies (Cum Laude).
- M.Sc. in Chemical Science and Technology.
- B.Sc. in Naval Architecture and Marine Systems Eng.

Further details available upon request at israel.gago.velasco@gmail.com