

### Academic Supervisor Profile



Dr. Amit Haldar is a Lecturer in Mechanical Engineering at the Technical University of the Shannon (TUS) and the Lead Investigator of the recently formed Hydrogen Energy Innovation (HEI) research group. He currently supervises several PhD and Master's students and maintains strong collaborations with both local and international universities and industry partners. His research focuses on lightweight and innovative materials, particularly under impact loading and in energy-absorbing polymer composites. He has published in leading journals such as Composite Part B, Composite Structures, Polymer Testing, Journal of Sandwich Structures and Materials Today Communications. His expertise in materials science and composites strongly supports research in solid-state hydrogen storage using polymer composites. Dr. Haldar is a former Marie Curie Fellow and an industrial fellow, enhancing his ability to mentor applied research projects. He has secured over one million euros in competitive funding from SEAI, Research Ireland (formerly SFI), and RUN EU in 2024. His leadership in securing funding, managing research teams, and publishing high-impact research will provide critical guidance to ensure the success of the postdoctoral project.




### Current Research Interests


- Solid-state hydrogen storage
- Renewable energy
- Sustainable polymer composites
- Carbon neutral economy


### Relevant Industries

- Transportation
- Power generation
- Renewable energy storage

### Contact Information

 [Amit.Haldar@tus.ie](mailto:Amit.Haldar@tus.ie) | [Research@tus.ie](mailto:Research@tus.ie)

 [PURE Profile](#) | [Google Scholar Profile](#)

 [LinkedIn](#) | [PRISM Website](#)