

LUCA DI STASIO
Postdoctoral Researcher/Scientist

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Dear James,

Dear Hiring Team,

My Ph.D. in Materials Science and Engineering focused on polymers and their composites, and more than 2 years as a postdoctoral fellow in computational mechanics of soft polymers and biological materials, along with my experience in developing and managing international research projects both as leader and collaborator, provide me with the skills to drive innovation in the development of heart support devices in a Senior/Principal Polymer Development Engineer capacity.

I offer proficiency in data analysis and statistical modeling, product design (CAD, CAE), several computational methods of solid mechanics (FEM, BEM), fluid mechanics (LBM, FVM), fracture and damage mechanics (CZM, VCCT, J-integral, interaction integrals), mesh generation and computational geometry (transfinite interpolation, elliptic/parabolic/hyperbolic mesh smoothing), and statistical mechanics (MC, MD). I have multiple years of experience in mechanical testing of polymers and their composites, strain sensing, ultrasound inspection, thermal imaging, microscopy, Scanning Electron Microscopy (SEM), Differential Scanning Calorimetry (DSC). I am expert in several software and programming languages as outlined in my CV.

The opportunity of living and working in several countries has allowed me not only to become fluent in different languages but most importantly to master cross-cultural communication skills. Flexibility, adaptability, and rapid response to change are qualities that I have nurtured by navigating multiple work environments. From my Master's thesis through my Ph.D. project to my postdoctoral fellowship, I have learned to manage international research projects from inception to exploitation. Honesty, transparency, and a positive attitude towards challenges have helped me earn the trust of each stakeholder involved. The ability to communicate candidly in the workplace has allowed me to build a broad network across different countries and scientific fields.

I am eager to put my skills and experience in service of your client's mission, and I am confident we should arrange a time to meet. In the meantime, I wish to thank you for taking the time to consider my application and review my qualifications.

Sincerely,

Luca Di Stasio