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LAMBDA ENERGY LTD
The Hauser Forum, Cambridge,
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# Polymer Chemist / Chemical Engineer / Materials Scientist

Lambda Energy is a fast-growing Cambridge nanotechnology start-up company that develops spectral converters for boosting the power output of solar panels. Lambda's converters consist of an active coating on the surface of glass, which converts photons from higher to lower energy thus enabling more effective conversion into electricity. Our technology is also targeted at AgriTech applications, where a spectral conversion coating can increase crop yield in greenhouses and polytunnels.

Lambda secured significant amounts of public and private funding during the last year and is presently running two UK Government funded R&D projects with several leading UK universities.

Currently, Lambda's team incorporates experts in Nanophysics, Photochemistry and Electronics Engineering. We are now looking for a new team member to help us obtain a Minimum Viable Prototype before we proceed into a Series-A fundraise in 2021.

This is a superb opportunity to join this exciting venture at an early stage and lend your experience to the clean energy sector.

We will offer a competitive salary with share options and flexible working.

You should:

- hold a PhD (or equivalent) in chemical engineering, materials science, or a closely related discipline;
- have a proven track record of scientific excellence;
- have experience in polymer engineering, especially with respect to environmental durability / accelerated ageing;
- have a good understanding of nanostructured materials;
- have experience in nano-composite manufacture from melt and / or solution, making homogeneous nanoparticle dispersions in polymers;
- have experience in processing different polymer matrix materials for more homogeneously dispersed nanoparticles using fluid dynamics, viscosities and shear force considerations;
- have experience in a variety of deposition methods of polymers to achieve thin and thick films, free-standing and on a substrate (e.g. spray coating, doctor blading, microextrusion etc.);
- have extensive experience on scanning electron microscopy (SEM) and UV-Vis of nanocomposite films;
- more generally, have significant hands-on technical experience, a desire to come up with new concepts and build prototypes;
- be self-motivated and have the ability to work as part of a small, interdisciplinary team of scientifically competitive people;
- have strong scientific curiosity and be willing to tackle difficult problems
- have permission to work in the UK.

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Ideally you would:

- have had a chance to make first experiences in an industrial setting;
- have experience developing industrial processing technologies and managing technology-based projects;
- be comfortable working flexibly within a very early stage, fast paced start-up environment;
- have experience with polymer / encapsulation formulations that are optimised for durability in challenging environmental conditions;
- have acquired knowledge and / or practical experience on optimal surface engineering of nanoparticles via e.g. ligand addition or modification;
- have hands-on experience in texturing surfaces for superhydrophobicity or lensing effects;
- have an understanding and more desirably practical knowledge on zeta potential;
- have some experience in reliability engineering and failure analysis;
- have some experience with polymer synthesis, polymerization reactions, polymer modifications and polymer additives;
- have a thorough understanding of photochemical / photophysical / optical principles.

In return, we offer:

- a chance to make a real difference in the world
- a company share option scheme
- a warm and friendly work environment
- an intellectually stimulating atmosphere

Lambda may have similar opportunities available to the one advertised, so please do still contact us if your background does not exactly match. We are interested in obtaining additional capability or knowledge in nanoparticle synthesis and project management.

Please get in contact with us on info@lambda.energy if you would like to know more.

Keywords: polymer chemist, chemical engineer, materials scientist, chemistry, nanocomposites, nanotechnology, encapsulation, accelerated life testing, prototyping, photochemistry, solar, cleantech, Cambridge.

Strictly no agencies. We will only consider direct applications.