

Innovation Management

Maximising the impact of research for industry by building partnerships and delivering solutions driven by business

Our Approach

Our Innovation Management services help clients to identify novel ideas and technologies. We work with clients from initial concept through to product launch and will help obtain funding and access the skills and partnerships needed to deliver commercially successful products or services.

BHR Group's awareness of and involvement in emerging technological developments and strong international links with business and research communities allows us to provide the optimal technological and commercial solutions.



Our services include:

- Co-operating with UK government, European Community and other funding bodies.
- Formulating business and research plans that address industry's competitive, regulatory and societal drivers
- Building partnerships that access technical and business expertise from around Europe
- Bidding and negotiating contracts on behalf of partners especially SMEs who do not have the resources to develop these skills in house
- Securing national and European grant funding to undertake research that leads to product development
- Employing professional management services suited to technically complex and multi-disciplinary projects
- Managing intellectual property generation, protection and exploitation
- Assessing technology readiness levels, preparing technology roadmaps and providing patent awareness and publication services.

Here are some examples of projects BHR Group is collaborating with European industry on:

Kristal: Improving Tribology by Applying Nano-Coatings to Rubber-like Materials - Integrating nano-technology and nano-coatings to tailor and extend the performance and functionality of rubber-like materials in sliding/sealing systems. BHR's elastomeric sealing knowhow and models of sliding friction at the nano scale, used to evaluate the wear resistance performance of HVOF coatings on aircraft landing gear. Performed reciprocating sliding tests to evaluate endurance and validate models.



AddNano: Formulating Nanoparticles in Lubricants to Reduce Friction and Wear - incorporation of Inorganic Fullerene (IF) nanoparticles into additives lubricant packages to improve performance, reduce friction and wear under extreme pressure applications. BHR is using its expertise in the incorporation and suspension of nanoparticles to scale-up the processing, and knowhow on nanotribology in high loading environments to evaluate performed enhancement in car engines.



Hydract: Development of Novel Energy Efficient Water-hydraulic Actuators for Hygiene Applications – BHR has used its fluid power and sealing knowhow to design, build and endurance test a patented self flushing hydraulic actuator for a sanitary valve which reduces energy requirements by up to 70%. Initially targeted at the brewing sector, the design will be integrating the valve with wireless communications, cost engineered and scaled-up and for long term site tests.



AquaGen: Developing an Environmentally Friendly Power Take-off System for Wave Energy Converters - BHR is performing the hydraulic design and tests of a novel water-hydraulic power take-off system that employs a light weight elastomeric structure, prior to its installation and sea trials on a 5kW prototype WEC platform.



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