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Client profile and requirement summary	
Organisation Type	Large Multinational
Location	United Kingdom
Sectors	Fast Moving Consumer Goods
Summary of requirement	<ul style="list-style-type: none"> <li>• Our client is a household brand working on the development of <b>sustainable products and processes</b> through novel self-assembly routes. As part of their strategic research and development activities, our client is actively searching for a new partner to join their consortium bidding for a <b>FP7 Marie Curie Initial Training Programme</b>.</li> <li>• This is an excellent opportunity for an innovative high-tech company with the relevant expertise and capabilities to collaborate with a global leader and their newly formed R&amp;D consortium.</li> <li>• For this opportunity, our client is interested to hear from small and medium-sized companies who have R&amp;D facilities in Europe, ideally based outside of the UK.</li> </ul>

Description of technological expertise and capabilities required by our client
<p>Our client is looking for a SME who can offer skills, current and emerging new capabilities and access to equipment that can be deployed to characterise new colloidal solutions that will be based on organic solvents, naturally derived surfactants and polymers and their interaction with packaging material and their behaviour during manufacturing, storage, in-use and distribution. This will also require characterisation and modelling of colloidal solutions, films, suds, foams, surfactants and polymers as a function of their key formulation, processing behaviour and in-use conditions such as dilution and deposition.</p> <p>Successful SME will be able offer our client first-principle modelling of the colloidal structure of surfactant and polymer aggregates in solution and fitting of scattering curves from light, neutron and x-ray scattering techniques. Interested SMEs should also have expertise, facilities, prior experience and capabilities in a range of relevant R&amp;D equipment and capabilities such as:</p>

- Microscopy – light, SEM, TEM, AFM, IR, Raman, Con focal, etc
- Particle sizing – light, laser, ultrasound
- X-ray techniques
- light scattering techniques
- NMR
- Surface techniques like Ellipsometry, Quartz Crystal Microbalance (QCM), dual polarisation Interferometry (DPI), contact angle, streaming potential
- Ultrasound
- Rheology especially if combined with other techniques like x-ray, light scattering, nmr, microscopy, etc
- microfluidics
- Rapid formulation
- Interfacial tensiometer
- Suds, foam characterisation
- Rapid stability testing
- Thermal analysis
- on-line process sensors especially Rheology, particle size, microscopy, x-ray, nmr, etc

## Research instrument

### FP7 Marie Curie Initial Training Programme

- Our client is establishing a consortium to participate in a Marie Curie Initial Training Programme, funded by the European Commission under Framework Programme Seven (FP7).
- This EU research instrument is aimed at building the skills of early-stage scientific researchers, who are in the first four years of their career after graduating. This hence includes researchers who are about to embark upon their PhD.
- Hence, successful SMEs joining our client's consortium must also be willing to recruit high-quality early-stage researchers and provide training opportunities as part of their R&D activities on our client's project. Mobility is a key feature of Marie Curie programmes and as such researchers must be hired from.
- The consortium will form a network of new strategic partners working with our client investigating new materials and technologies for the development of their next-generation of sustainable processes and products.