

Request for Proposal RFP_2019_0038: Polymers That Decompose at Low Temperatures

RFP Title	Polymers That Decompose at Low Temperatures
Due Date	04/04/2019
Opportunity	Licensing, product acquisition, proof of concept leading to scale-up to manufacturing, joint development, supplier agreement
Timeline	Phase 1 – Technology Assessment – 3 - 6 months Phase 2 – Development plan / Scale-up – 12-24 months
Financials	All terms to be negotiated depending on technology status
RFP Description	NineSigma, representing a global high-performance materials manufacturer , invites proposals from organizations and researchers for polymers (fibres) that can decompose at low temperatures .
Background	<p>Ninesigma's client is a global supplier of high performance materials for a variety of high temperature applications.</p> <p>The integration of polymer materials (fibres, etc.) into various product lines has a number of potential applications. The primary goal for the current search is to find a polymer matrix, blend or composition that decomposes at 100°C. Potential solutions which currently decompose at 250°C with a clear path to reducing (e.g. functionalising, processing, etc.) this decomposition temperature are also of high interest.</p> <p>The decomposition temperature is linked to the fibre length and therefore consultants and/or academics who have extensive experience in this area are highly valued.</p> <p>The client is open to all solutions from academia and from industry, as long as there is a clear understanding of the method and requirements.</p>
Key Success Criteria	<p>The ideal solution will be a polymer material / fibre which meets the following criteria:</p> <ul style="list-style-type: none">• Decomposition temperature: 100°C• Low melting point• Fibre length: 3-6mm• Fibre Diameter: micron range• Final product polymer concentration <1%
Area of Interest	Chemistry Engineering-Chemical Engineering-Automotive
Possible Approaches	<p>Potential solutions could include, but are not limited to:</p> <ul style="list-style-type: none">• Any polymer composition which has low decomposition temperature and low melting point• Long length polymeric fibres• Any green material systems
Approaches not of Interest	
Preferred Collaboration Types	Consulting Joint Development Technology Licensing Supply Agreement Technology Acquisition

To Be Negotiated

Items to be Submitted

Proposals should not include any confidential information and should contain the following:

- Executive summary
- Status of IP and Freedom to operate
- Brief overview of organization
- Experience of commercial exploitation of chemistry methodology development

For assistance, please contact the Programme Manager (worsfold@ninesigma.com).

Award Amount

Attachments

No Files Selected

Request Number

RFP_2019_0038

Picture

