

CORNET Call for Proposals: International Collective Research
--- Organisation profile ---

Organisation:	Deutsche Institute für Textil- und Faserforschung Denkendorf (DITF)
Website address:	www.ditf.de
Organisation typology:	<input type="checkbox"/> SME Association <input type="checkbox"/> University <input checked="" type="checkbox"/> Research Centre <input type="checkbox"/> Other (please specify)
Sector:	<input checked="" type="checkbox"/> Materials <input checked="" type="checkbox"/> Process Engineering, Energy Technology and Environment <input checked="" type="checkbox"/> Business Management and Organisation <input checked="" type="checkbox"/> Construction and Production <input checked="" type="checkbox"/> Chemistry, Textile, Food, Health and Medical <input checked="" type="checkbox"/> Measurement and Information
Field of specialisation:	<p>Three research areas, Textile Chemistry, Textile and Process Engineering and Management Research, cover the entire textile value chain from molecule to product.</p> <p>Research fields:</p> <ul style="list-style-type: none"> - New Materials - Lightweight Construction - Sustainability - Digitalisation - Health
Expertise offered:	<p>Polymer Synthesis:</p> <ul style="list-style-type: none"> - Polymers for fibres and matrices - Precursors for carbon fibres (PAN, polyolefin, cellulose, lignin,...) - Ceramic fibres, cellulose processing and cellulose fibers, biopolymers (chitin, chitosan, flax,...) <p>Fibres and Yarns:</p> <ul style="list-style-type: none"> - Wet spinning technology, dry spinning technology - Melt spinning technology - Bicomponent spinning technology - Texturizing and drawing - Nonwoven technologies - Staple fiber technology - Winding technology <p>Fabrics and Structures:</p> <ul style="list-style-type: none"> - Spacer technologies - Weaving, braiding, knitting, joining technologies

	<ul style="list-style-type: none"> - tissue engineering - membranes - braiding pultrusion - structure winding <p>Functionalisation:</p> <ul style="list-style-type: none"> - Sol-Gel Technology - Dyeing and finishing - Printing technologies - Nanotechnologies - Physical and chemical methods - Coating, minimal application technologies - Integration of electronic components - Development of sensory and actuator properties <p>Industry 4.0:</p> <ul style="list-style-type: none"> - Modeling and virtualisation - Value-added systems, business models - Digital Engineering, intelligent and sustainable production - E-learning, blended learning <p>Circular Economy:</p> <ul style="list-style-type: none"> - Recycling - Product Carbon Footprint - Microfactory - AI, Digital Twin <p>Testing and analyses</p>
<p>Contact person:</p>	<p>Name: Sabine Keller Organisation: DITF E-mail: info@ditf.de Tel: +49 (0)711 9340 0</p>