**INNOVATION VOUCHERS INITIATIVE DIRECTORY OF SKILLS AND EXPERTISE**

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| **Knowledge Provider** | National Composites Centre |
| **Address** | NCC, Bristol & Bath Science Park, Feynman Way, Emersons Green, Bristol, BS16 7FS |
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| **Department/Unit** | **Specific services offered** | **Contact****Name** | **Address****(If Different from****Above)** | **Telephone** | **E-Mail address** |
| NCC Industrial Innovation – SME Support | Composite materials, Digital, process and technology research and development, specifically for SMEs – covering full design, build, test lifecycle. Free of charge services include supply chain connections, line walks of manufacturing facilities and innovation workshops for new product introduction / technology assessments. Matched funding available for eligible SMEs / projects. More details available here: <https://www.nccuk.com/sectors/supporting-smes/>  | Ashley ParkinsonJames Helm James Waldock |  |  | Ashley.parkinson@nccuk.comJames.helm@nccuk.comconnect@nccuk.comJames.waldock@nccuk.comtraining@nccuk.com  |
| NCC Connect - Training | Theoretical and practical off-the-shelf training courses on composites, digital and sustainable manufacturing. Workforce development assessments (skills gap analysis) and bespoke programs can be delivered to customers. Delivery options include face to face (at the NCC or customer’s facility, dependent on equipment available), online live sessions, and online self-paced learning. More details available here: <https://www.nccuk.com/training/>  |

*Short description of provider \**

Please provide a short background to your organisation, overview of services, target customers

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| The National Composites Centre (NCC) is a world-class research centre, where companies of any size and across industry sectors, can access cutting-edge technology and specialist engineers, to drive innovation in the design and manufacture of composites and associated technologies. Based in Bristol, NCC has the highest concentration of composite expertise than anywhere else in the world with over 350 engineers bridging the gap between academia and industry. More detailed information of NCC capabilities can be found here: https://www.nccuk.com/why-ncc/ More specifically, NCC has a dedicated SME support team, NCC Connect, to ensure SMEs can swiftly access NCC resources. The Connect team offers several complimentary services to SMEs throughout the UK including line walks, innovation workshops and a rapid response technical consultancy and delivery team. The NCC's highly successful SME Boost Programme also offers eligible SMEs / projects up to £25k of matched funding to complete their composite material and processing R&D activities at the NCC. Further details of how NCC Connect supports SMEs can be found here: https://www.nccuk.com/sectors/supporting-smes/ In addition to NCC's composite and sector specialists, it is also a front door to the wider HVM Catapult network with access to 2500+ engineers/scientists and £683m+ assets to support R&D activities across 27 different technology areas. More information can be found here: <https://hvm.catapult.org.uk/> |

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| NCC Industrial Innovation offers UK based SMEs up to a complimentary day of support in the form of technical consultancy, line walks or innovation workshops depending on the nature of the company's challenge(s). These activities will identify follow-on projects which could be supported using the RTO Grant or SME Boost Programme, including but not limited to: - Feasibility / trade studies - Upscale / automation studies - Prototyping- Concept design for new product / process introduction- Tooling design - Design, build and test projects - Verification - Cost modelling - Supply chain analysis- Training in composite design and manufacturing processes - Lean six sigma- Equipment hire NCC also offers broader sustainability and digital transformation services to all types of manufacturers, regardless of whether they use composite materials or manufacturing processes. Our sustainability transformation service ([read more here](https://www.nccuk.com/what-we-do/sustainability/sustainability-transformation-service/)) includes: * Goal Setting
* Energy Data Collection
* Carbon Accounting
* Life Cycle Assessments (LCA)
* Techno-Economic Analysis (TEA)
* Road Mapping
* Delivery of Specific Interventions

Our digital transformation services include: * Digital engineering & simulation (Virtual prototyping, FEA, CFD, process simulation and digital twinning)
* Data-driven manufacturing (Use of Artificial Intelligence and Machine Learning, Real-time process monitoring, closed-loop manufacturing and intelligent automation)
* Smart factory / Industry 4.0 solutions (Internet of Things, Manufacturing Execution Systems (MES) and predictive maintenance solutions)
* Augmented and Virtual Reality (VR environments, AR overlays and remote collaboration tools)
* PLM / CAD / CAM Integration (Enhancing design for manufacture capabilities through integrated digital tools)
* Piloting new digital technologies

 Existing case studies with some of our SME customers can be viewed on the NCC website here: <https://www.nccuk.com/news/?type=story#page-content>  |
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