

Position: Project Engineer – Composite Processing
Department: Advanced Manufacturing Innovation Centre (AMIC)
Reference: 25/113057
Closing Date: Monday 19 January 2026
Salary: £35,136 - £40,316
Anticipated Interview Date: Wednesday 21 January 2026
Duration: 3 years in the first instance

We are seeking a highly motivated Senior Engineer to work in AMIC's Sustainable Polymer and Composite team to lead projects being delivered as part of AMIC's advanced manufacturing activities.

AMIC is a £100M investment through the Belfast Region City Deal - a collaborative, innovative powerhouse of advanced manufacturing set to elevate our region globally.

We are supporting economic growth and prosperity for Northern Ireland by creating high quality jobs and increasing inward investment through high value manufacturing innovation clusters.

We are driving industrial transformation, paving the way for future technologies and competing globally with a more sustainable focus.

Our launch team of experienced staff has core capabilities in digitalising manufacturing, smart design, sustainable polymers & composites and nanotechnologies & photonics. We're excited to be expanding the team throughout 2026.

JOB PURPOSE AND IMPACT:

We are seeking engineers who want to innovate and apply their knowledge to the challenges of industry and society to support the delivery of industrially focused composite projects within AMIC's advanced manufacturing activities. You will apply your specialist knowledge and experience of methods, processes and process validation to generate innovative research outputs which have a direct economic and technical benefit to companies and sectors. You will work collaboratively with the sustainable polymer and composite team, wider AMIC team, industry partners, technology providers, national technology centres and academia to deliver key projects focused on advanced composite processing.

MAJOR DUTIES:

1. Plan and organise own project work to achieve technical objectives ensuring delivery to time, quality and budget under the guidance of the Senior Engineer.
2. Support multi-disciplinary research projects to ensure timely delivery of project objectives.
3. Apply technical knowledge in the operation and optimisation of composite processing equipment (e.g. including DFP, press, autoclave, RTM, infusion, etc).
4. Support the development, demonstration and validation of novel composite designs and component manufacturing processes. e.g. processing trials, case studies and direct client project delivery.
5. Contribute to the development and implementation of Digital Technologies, e.g. sensors and software to improve cost and quality of manufactured components.
6. Assist in connecting concepts of manufacturing, testing and simulation to deliver innovative solutions for industrial partners.
7. Contribute to high-quality industrial research and knowledge transfer in composite processing and advanced manufacturing.
8. Produce technical reports and demonstrations to support project delivery and further research activity.
9. Ensure all equipment is used safely and in accordance with standard operating procedures and Health and Safety guidance.

10. Maintain accurate records of experimental work, process parameters and quality documentation.
11. Undertake any other duties that may reasonably be requested by management.

ESSENTIAL CRITERIA:

1. Honours degree or equivalent in a relevant engineering discipline, science, or a related discipline with relevant industrial experience OR minimum HND in a related engineering discipline with substantial recent and relevant industrial experience OR substantial practical experience in composite manufacturing, with demonstrable technical expertise.
2. Practical experience in composite manufacturing (e.g. prepreg layup, resin infusion, RTM, or autoclave processing), including hands-on operation of processing equipment, with understanding of how process selection affects component quality, cost and delivery.
3. Evidence of applying process knowledge within composite manufacturing projects, with contribution to process development or improvement activities.
4. Experience of using software packages to assist with the design, processing and testing of parts or fixturing in support of project delivery goals.
5. Knowledge and practical application of safety systems, risk management, and COSHH requirements relevant to composite processing workshop environments.
6. Experience with design for manufacturing concepts, including awareness of how part design affects manufacturing feasibility and quality.
7. Ability to work with cross-functional teams to ensure quality, performance, and delivery standards.
8. Ability to maintain accurate process documentation and quality records to support manufacturing traceability.
9. Evidence of problem-solving skills in an engineering environment, with ability to identify issues and propose solutions.
10. Good written and verbal communication skills, including the ability to produce technical reports and convey complex technical information clearly.

DESIRABLE CRITERIA:

1. Postgraduate qualification in a relevant discipline.
2. Experience in design and design for manufacture of composite components and tooling design.
3. Familiarity with technical package documentation (Equipment Specification, PFMEAs, Tooling and HSE documentation) used to define manufacturing processes.
4. Exposure to process or structural simulation software, i.e., Moldex, DIGIMAT, ABAQUS, ANSYS.
5. Experience with manufacturing automation technologies or digital manufacturing systems.
6. Experience with composite characterisation methods including destructive and non-destructive testing.
7. Awareness of technology readiness levels (TRL) or manufacturing readiness levels (MRL) frameworks.
8. Experience working within quality management systems or following process controls.
9. Contribution to project proposals or funding applications.
10. Willingness to visit collaborative partners and to attend meetings and conferences nationally and internationally as requested.

ADDITIONAL INFORMATION:

Please indicate your preferred position (Project Engineer or Senior Engineer) on your application. While preference will be considered, appointments will be made based on skills, experience, and alignment with the essential criteria for each grade.