

# Support Engineering

BAE Systems Global Combat Systems is responsible for designing, manufacturing and supporting some very complex vehicle and weapon systems.

Support engineering is a multi-disciplinary field of engineering that deals with all the aspects related to the maintenance, repair and support of systems and products to ensure their continued operation or functioning. Support Engineering is executed during the concept, design and development of new systems to ensure that they are supportable in a cost-effective manner, it continues during the operational life of the system to optimise the availability at an acceptable cost, and concludes only when the system is disposed of at the end of its life. .

As a Support Engineer at Global Combat Systems you can expect to be working closely with other Engineering disciplines as part of an integrated project team, your role could include activities such as:

- Supportability Engineering Management: Managing support requirements, developing Supportability Plans; Logistic Support Analysis.
- Life Cycle Costing – ensuring that we understand the true cost of the system, not just the purchase price!
- Maintenance Planning – establishing the maintenance concepts and requirements for equipment using analysis tools and methodologies such as Failure Mode and Effects Analysis (FMEA); Reliability Centred Maintenance (RCM) and Level of Repair Analysis (LORA).
- Reliability: Reliability calculation & analysis; production of FMEAs, understanding failure modes, causes of failure and criticality; Supporting reliability growth trials and offering solutions to reliability issues
- HUMS – health and usage monitoring systems – understanding how a system is being used and why it is being used in that way; pro-active monitoring of systems so that failure can be pre-empted and preventative action taken.
- Packaging, Handling, Storage and Transportation (PHS&T) - ensuring that all system equipment and support items are packaged, handled, stored and transported properly and in conformance with appropriate legislation - particularly for hazardous materials.
- Spares Modelling – ensuring that the customer has the right part in the right place at the right time.
- Product Training – training needs analysis; design, specification, procurement and commissioning of training aids such as CBT and simulators; course design & delivery.
- Technical Publications – creation and modification of paper-based and interactive publications for users and maintainers.
- Field Service Support - support to the user “in the field”, providing a first point of contact and technical assistance whether at the unit’s home barracks or in operational theatres.

Support Engineers within Global Combat Systems apply their engineering knowledge in a new way, gaining experience from a range of tasks and projects to develop skills across Support engineering. You will have the opportunity to work on projects at different stages in their lifecycle; from early development to in-service support, and are likely to spend some time working very closely with the customer.