



Shock EO Systems is a market leading international company that specialises in the research and development of Electro-Optical (EO) assemblies for the Security, Military / Defence and surveillance environment. Our facility is situated in the Route 21 Corporate Park, Pretoria.

Our projects run from the design phase up to proto-typing and getting the products production ready. We are currently seeking engineers to join our excellent team in 2025. We are seeking the following:

Mechanical engineers:

<p>Areas of knowledge: (Preferred, but not mandatory)</p> <ul style="list-style-type: none"> • Mechanical design • Detailed CAD modelling and design (PTC CREO, Simulate & Mechanism Dynamics or similar) • Opto-mechanical design • Thermal analysis • Tolerance analysis • Stress analysis • Specifying production test requirements of mechanical systems and subsystems • Ability to perform simulations in Matlab / Mathcad etc 	<p>Mechanical engineer key responsibilities:</p> <ul style="list-style-type: none"> • Provide a Mechanical Engineering service in the EO field that includes the following tasks: <ul style="list-style-type: none"> ○ Interpretation of system / product requirements applicable to mechanical design considerations ○ Interfacing with other engineering disciplines and specialists in the optical, mechanical, electronic, software etc. fields ○ Design of mechanical assemblies and sub-assemblies ○ Generation of relevant mechanical specifications documentation (e.g. MICD, Product Spec, etc) ○ Systems integration and testing with other engineering disciplines ○ Lab testing and evaluation of produced designs. ○ Systems integration and testing with other engineering disciplines ○ Full Data-Pack and configuration management for the opto-mechanics (Windchill) ○ Preparation of Data-pack for serial production • Engineering management support including but not limited to: <ul style="list-style-type: none"> ○ Interfacing with the mechanical production facility. ○ Interfacing with the optics production facility. ○ Procurement of engineering materials and equipment. ○ Procurement of manufactured items
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If you are interested, please send your CV to info@shockeos.com

(Should you not be contacted, please assume your application not successful)