



## Mechanical Engineer

DefendTex is an Australian based Defence company with a strong focus on innovation, research and technology development. DefendTex services military and law enforcement communities around the world.

DefendTex are seeking Graduate Mechanical Engineers to join an expanding team working on the development of cutting-edge Defence technologies. Specifically, the roles will involve working on either novel weapon or armour systems. The successful applicant will be required to perform 3D CAD modelling of weapon / armour systems sub-components, assemblies and tooling as well as providing detailed manufacturing drawings.

The successful applicant will assist in designing and physically developing prototype weapon and armour systems. The role will involve extensive ballistic testing to inform and optimise the respective systems. The role will also require the development of a manufacturing process for the candidate systems.

Initially the role will be working on the development and commercialisation of weapon and armour systems, however, there will also be opportunities to assist in other technologies under development at DefendTex.

### Roles and Responsibilities:

- Design and development of mechanical components, systems and tooling for military systems
- 3D CAD modelling of components and assemblies to be used in weapon and armour systems
- Preparation of manufacturing drawings including tolerancing and dimensioning to Australian Standards
- Carrying out critical design reviews and design optimisation
- Assist in the procurement of plant and equipment used for design and development of lightweight weapon and armour systems
- Assist in the set-up of a pilot manufacturing plant
- Manufacturing test samples and prototypes
- Assisting in ballistic testing campaigns including field testing
- Applied research in the field of armour and weapon systems

### You need:

#### Essential:

- Bachelor of Engineering (Mechanical)
- 3D CAD modelling experience (SolidWorks preferred)
- Sound knowledge of mechanical systems design
- Good understanding of engineering materials: specifically, metals, polymers and composites
- Hands-on, practical approach to engineering problem solving
- Experience preparing manufacturing drawings
- Australian Citizenship
- Must pass the Australian Government BASELINE security check
- Not be a prohibited person under Section 3 of the Firearms Act 1996 (Victoria)

#### Desirable:

- Basic understanding of weapon systems
- Basic understanding of personnel armour systems
- Experience with FEA tools and simulation
- Strives to learn in a dynamic work environment
- Knowledge of various manufacturing processes used for light weight weapon systems and composite armour systems
- Basic understanding of electronic systems

Team work is critical to us so you must be a team player, able to work in a mixed discipline environment ensuring your designs integrate and function first time, every time.

**We offer:**

- Competitive remuneration
- Great facilities at our office in Melbourne's South East
- Genuine learning and development opportunities
- Opportunity to innovate and see it come to life
- Working in a dynamic team environment with talented engineers who are supported by senior management to develop innovative, novel applications for defence and law enforcement is what it's all about for DefendTex engineers.
- DefendTex engineers have the opportunity to work collaboratively with external research organisations for many projects, ensuring our team are offered ongoing professional learning.

**Interested?**

To apply for this exciting role, please send your CV and Cover Letter to [lauren.mccleery@defendtex.com](mailto:lauren.mccleery@defendtex.com)