

# Project Engineer

Job Description

**Project Mechanical Engineer**  
**Centurion, Gauteng**  
**R40 000 - R55 000 a month**

My Client is a company positioned in the Mining Sector with a vision to be the leading integrator of sensor based sorting technology. They supply modular products to support operations in Africa, which requires simple, robust and reliable equipment. **A systems approach is adopted**, where each piece of the puzzle is carefully planned and executed to form a sound operation, providing the client with an operational asset to capitalise on their resource.

Your function lends itself to personal growth and the opportunity to make a difference by positive contributions to the team. The overall company approach is to have a “Lean and Mean” group of people where all parties stand out in what they do.

Your function as the Project / Mechanical Engineer would include the following responsibilities inter alia:

- Materials Handling design and execution and the management thereof
- Piping designs and execution and the management thereof
- Quality management – Fabrication and Construction
- Management of procurement packages from tender to fabrication to commissioning

**Setup of WBS and WBS Dictionary**

**Project Scheduling – MS Projects**

- Traveling to African countries for site visits and prolonged commissioning periods
- Structured improvement of designs – capturing lessons learnt and incorporating into the design
- A strong focus is on documentation of all actions by utilising the standard company system – Prolog
- Input into the development of the company system to suit the business needs of the company

You should be comfortable with change to adapt to specific requirements within the team. Team members will feed off each other’s strengths and “fill the gaps” where required.

Experience and Qualifications:

**BSc. Mechanical Engineer/ BEng. Mech**

Project management (min 3 years)

5 – 10 Years' experience as a project/Mechanical Engineer:

Mining Materials Handling and Processing Plants (Experience with Conveyors)

(further as per the functions noted above)

**Software: MS Projects**

Job Type: Full-time

Salary: R40,000.00 to R55,000.00 /month

Experience:

Project Management: 5 years (Required)

Mining Materials Handling and Processing Plants: 5 years (Required)

Mechanical Engineering: 5 years (Required)

Working with conveyors: 5 years (Required)

<https://www.careerjunction.co.za/jobs/project-engineer/gauteng>

# Henry Lewis, Project Engineer at Arconic

- <https://www.youtube.com/watch?v=TIRbEyCgu6w>

## The 4 C's

- Collaboration
- Communication
  - Creativity
- Critical Thinking

# Project Engineer (Aviation)

<https://www.youtube.com/watch?v=L9lQ66iCs-k>

# Project Engineer Job Responsibilities:

Completes engineering projects by  
organizing and controlling  
project elements.

# Project Engineer Job Duties:

- Develops **project objectives** by
  - reviewing project proposals and plans;
  - conferring with management.
- Determines **project responsibilities** by
  - identifying project phases and elements;
  - assigning personnel to phases and elements;
  - reviewing bids from contractors.
- Determines **project specifications** by
  - studying product design,
  - customer requirements, and performance standards;
  - completing technical studies;
  - preparing cost estimates.

# Project Engineer Job Duties:

- Confirms **product performance** by
  - designing and conducting tests.
- Determines **project schedule** by
  - studying project plan and specifications;
  - calculating time requirements;
  - sequencing project elements.
- Maintains **project schedule** by
  - monitoring project progress;
  - coordinating activities;
  - resolving problems.



# Project Engineer Job Duties:

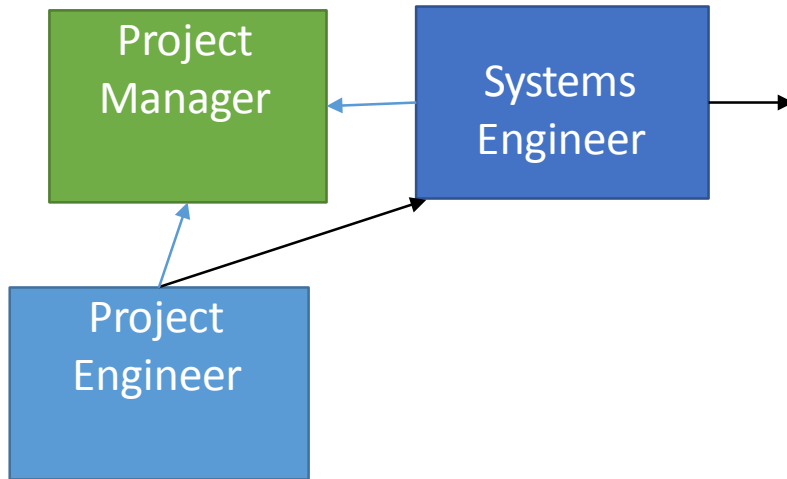
- Controls **project plan** by
  - reviewing design, specifications, and plan and schedule changes;
  - recommending actions
- Controls **project costs** by
  - approving expenditures;
  - administering contractor contracts.
- Prepares **project status reports** by
  - collecting, analyzing, and summarizing information and trends;
  - recommending actions.

# Project Engineer Job Duties:

- Maintains safe and clean working environment by enforcing procedures, rules, and regulations.
- Maintains project data base by
  - writing computer programs;
  - entering and backing up data.
- Maintains product and company reputation by complying with regulations.
- Contributes to team effort by accomplishing related results as needed.

# Project Engineer Skills and Qualifications:

Requirements Analysis,  
Design Skills,  
**Project Management,**  
Manufacturing Methods and Procedures,  
Process Improvement,  
Technical Understanding,  
Documentation Skills,  
Safety Management,  
Supervision,  
CAD, CAD/CAM Circuit Design



Systems Engineering is an **interdisciplinary approach** and means to enable the **realization of successful systems**. It focuses on **defining customer needs and required functionality early in the development cycle**, documenting requirements, then proceeding with **design synthesis and system validation** while considering the complete problem. Systems Engineering **integrates all the disciplines and specialty groups** into a team effort forming a **structured development process** that proceeds from concept to production to operation. Systems Engineering considers both the **business and the technical needs of all customers** with the goal of providing a quality product that meets the user needs.

Definition of the International Council on Systems Engineering (INCOSE)

# What is a project?

<https://www.youtube.com/watch?v=BOU1YP5NZVA>