



Job Situation

Office, with computer, phone and fax. industrial plant, machinery. Reporting to upper management. On call for emergencies.

Weekly Hours of Work

40

Overtime

As required

Monthly Salary

\$4,300

Student Loan – Owing

Student Loan – Monthly Payment

\$300

Duties

Consult with other engineers. Research, plan, estimate. Design new facility. Oversee installations and modifications. Train workers and supervisors. Maintain and supervise system. Write reports.

Prospects

Larger projects. Consultation. Education. Senior management in related departments.

Job Title

Mechanical Engineer

National Occupational Classification (NOC)

2132

Job Description

Although building a brand new facility is always exciting, the technical problems involved in modernizing an old plant is the kind of challenge a Mechanical Engineer finds hard to resist, especially when the salary is a good one. You decided to take this project on and make it the talk of the industry, in engineering circles anyway.

The first step was to sit down with a set of floor plans redrawn to exclude the old machinery. You drew up a wish list after hours (and hours and hours) of consultation with the rest of the engineering team, other senior management, and especially the plant manager and the production manager. Everybody knows what they want, but it's up to you to decide what is possible. You start making another list with ball park cost estimates in another column. Eventually you will decide on exactly which machines you will buy and a more realistic budget will emerge from the chaos.

Working out the time frames for the renovations to the existing plant and the installations of the new equipment is even more complicated than the budget. You have to minimize the disruption to the production process as much as possible, but you know from experience how many things can, and will, go wrong. You know that workers will be laid off while the upgrading project is happening and you feel bad about that, but it's out of your hands.

You've only just begun the planning stages, and there's a long way to go before you can start making the new machinery dovetail with the old, work out the bugs, and start training the maintenance staff. But you can already imagine a busy production line as the empty floor plans fill up with your diagrams.