

## i-STAT Canada Ltd

### Wafer Fab Rationalization

Hazeldean Road, Ottawa.

#### Project Statistics

Area description:	Wafer fabrication plant
Area size	16,000 sq. ft.
Project budget	\$5,000,000

#### Responsibilities

The complete program management and design of a multi-project, three year program to refurbish and rationalize this company's wafer fabrication plant.

#### Services Provided

- ▣ *Project and program management*
- ▣ *Architectural design*
- ▣ *Mechanical design*
- ▣ *Electrical design*
- ▣ *Environmental specialist consulting*

#### Project Objectives

Double the production capacity of an existing wafer fabrication plant, while maintaining the building size and uninterrupted production of product.

Carry out systems upgrading and replacements in order to improve reliability and conformance to codes, without affecting production.

#### Challenges

To systematically gut and refurbish multiple cleanroom and process spaces, while maintaining and even increasing the plant's level of production.

To upgrade and replace central systems without affecting production.

To maintain the program's budget and schedule milestones with multiple projects and external influences over a three year period.



#### Solutions and Successes

- ▣ Developed a plan to optimize the wafer fabrication areas, relocating ancillary areas to support spaces.
- ▣ Broke the program into approximately forty projects, each project having its own definition, schedule and budget.
- ▣ Assessed the condition, operational efficiency and usefulness of the plant's existing systems.
- ▣ Developed an overall program schedule and budget, integrating the schedule and budget of the individual projects.
- ▣ Prepared budgets and estimates of cost for each project and presented as a three year spend plan.
- ▣ Although the program was halted due to market forces, the program was considered successful and was brought to a point where it could be naturally continued in the future.