

Industrial Design

Industrial designers develop and prepare products for manufacture with particular emphasis on those aspects that relate to human usage and behaviour.

They explore solutions to meet marketing, manufacturing and financial requirements and arrive at the optimum design of a product. They consider both functional and aesthetic aspects and pay particular attention to ergonomics, those factors that relate to ease of use and human behaviour.

They prepare models and prototypes to demonstrate and test products. They prepare drawings and illustrations of products to assist in the decision-making process and support marketing efforts.

They select components and materials, resolve assembly and manufacturing details and produce digital and documentary instructions for others involved in the manufacturing process. They organise and oversee tooling to prepare for production and develop and oversee subsequent adjustments and refinements to the product.

Industrial designers often work as part of a product development team.

While other specialists such as electronics designers and mechanical engineers work on circuit boards and mechanical mechanisms the industrial designer may be working on the overall structure of the product, its appearance and the way in which the user will operate it.

It is common for industrial designers to be employed within manufacturing companies. For manufacturers the development and maintenance of product lines is a core requirement rather than an occasional need. Many industrial designers, however, work for businesses that consult to manufacturing companies, especially those businesses that don't maintain internal research and development facilities.

What you'll study

Design Theory & Practice
Communication Skills
Manufacturing Materials
Manufacturing Processes
Design History
Design Software Applications
Computer Aided Design & Manufacture
Presentation Techniques
Ergonomics
Project Management
Business Management

Where you'll work

Manufacturing Companies
Design Consultancies
Designer/Maker Workshops
Research & Development Departments
Self Employed

Other areas you'll find work

Animation Studios
Special Effects Studios
Computer Games Development
Exhibition & Display



Ultimo Design Workshop

The workshop

Comprises an area for metal working, wood working, general use, plastics fabrication and **vacuum forming**, welding, spray-painting, materials storage, tool storage and an office. Equipment contained in these areas include wood and metal lathes, vacuum table, pedestal drills, disc sanders, welders, bench saws, routers, milling machines, steel benders and guillotines, a collection of hand and portable power tools.



Berg Mini Vacuum Forming machine purchased by UTS Design Centre

Modern Plastics Equipment is proud to have been the successful supplier of Vacuum Forming Equipment for the Ultimo Design Centre of the University of Technology Sydney. We believe the Peter Berg Mini Vacuum Forming Machine is ideal for this type of application and should be considered in similar facilities of Technical Training.