

Industrial Designers

SOC: 27-1021 • Career Profile Report

■ Key Facts

\$79,450 Median Salary	30,600 Employment	+3.0% Growth Rate
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■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 15.0% probability of being automated in the next 10-20 years.
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■■ Work-Life Balance

6.3/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	5.0/10	Investigative	5.6/10
Artistic	9.6/10	Social	7.4/10
Enterprising	6.2/10	Conventional	4.4/10

■ Top Skills Required

Analytical skills, Artistic ability, Computer skills, Creativity, Interpersonal skills, Mechanical skills, Problem-solving skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Industrial Designers typically perform the following tasks:

- Prepare sketches of ideas, detailed drawings, illustrations, artwork, or blueprints, using drafting instruments, paints and brushes, or computer-aided design equipment.
- Modify and refine designs, using working models, to conform with customer specifications, production limitations, or changes in design trends.
- Evaluate feasibility of design ideas, based on factors such as appearance, safety, function, serviceability, budget, production costs/methods, and market characteristics.
- Confer with engineering, marketing, production, or sales departments, or with customers, to establish and evaluate design concepts for manufactured products.
- Present designs and reports to customers or design committees for approval and discuss need for modification.
- Research production specifications, costs, production materials, and manufacturing methods and provide cost estimates and itemized production requirements.
- Direct and coordinate the fabrication of models or samples and the drafting of working drawings and specification sheets from sketches.
- Investigate product characteristics such as the product's safety and handling qualities, its market appeal, how efficiently it can be produced, and ways of distributing, using, and maintaining it.
- Develop manufacturing procedures and monitor the manufacture of their designs in a factory to improve operations and product quality.
- Participate in new product planning or market research, including studying the potential need for new products.
- Read publications, attend showings, and study competing products and design styles and motifs to obtain perspective and generate design concepts.
- Fabricate models or samples in paper, wood, glass, fabric, plastic, metal, or other materials, using hand or power tools.
- Develop industrial standards and regulatory guidelines.
- Coordinate the look and function of product lines.
- Supervise assistants' work throughout the design process.
- Design graphic material for use as ornamentation, illustration, or advertising on manufactured materials and packaging or containers.
- Advise corporations on issues involving corporate image projects or problems.

*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O*NET*

Source: <https://www.bls.gov/ooh/arts-and-design/industrial-designers.htm>