

Jewelers and Precious Stone and Metal Workers

SOC: 51-9071 • Career Profile Report

■ Key Facts

<div>\$49,140</div> <div>Median Salary</div>	<div>35,100</div> <div>Employment</div>	<div>-5.0%</div> <div>Growth Rate</div>
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■ Requirements & Salary Range

Education: High school diploma

■ Automation Risk Assessment

Medium Risk - 38.0% probability of being automated in the next 10-20 years.
This job has some routine elements but still requires human judgment and interaction.

■ Work-Life Balance

6.2/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.4/10	Investigative	5.0/10
Artistic	3.8/10	Social	4.6/10
Enterprising	4.0/10	Conventional	8.0/10

■ Top Skills Required

Creativity, Detail oriented, Dexterity, Interpersonal skills, Multi-tasking skills, Near vision, Visualization skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Jewelers and Precious Stone and Metal Workers typically perform the following tasks:

- Clean and polish metal items and jewelry pieces, using jewelers' tools, polishing wheels, and chemical baths.
- Smooth soldered joints and rough spots, using hand files and emery paper, and polish smoothed areas with polishing wheels or buffing wire.
- Create jewelry from materials such as gold, silver, platinum, and precious or semiprecious stones.
- Cut and file pieces of jewelry such as rings, brooches, bracelets, and lockets.
- Examine assembled or finished products to ensure conformance to specifications, using magnifying glasses or precision measuring instruments.
- Make repairs, such as enlarging or reducing ring sizes, soldering pieces of jewelry together, and replacing broken clasps and mountings.
- Compute costs of labor and materials to determine production costs of products and articles.
- Position stones and metal pieces, and set, mount, and secure items in place, using setting and hand tools.
- Grade stones based on their color, perfection, and quality of cut.
- Select and acquire metals and gems for designs.
- Shape and straighten damaged or twisted articles by hand or using pliers.
- Create new jewelry designs and modify existing designs, using computers as necessary.
- Plate articles such as jewelry pieces and watch dials, using silver, gold, nickel, or other metals.
- Record the weights and processing times of finished pieces.
- Construct preliminary models of wax, metal, clay, or plaster, and form sample castings in molds.
- Write or modify design specifications such as the metal contents and weights of items.
- Soften metal to be used in designs by heating it with a gas torch and shape it, using hammers and dies.
- Pierce and cut open designs in ornamentation, using hand drills and scroll saws.
- Research and analyze reference materials, and consult with interested parties to develop new products or modify existing designs.
- Mark, engrave, or emboss designs on metal pieces such as castings, wire, or jewelry, following specifications.

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

Source: <https://www.bls.gov/ooh/production/jewelers-and-precious-stone-and-metal-workers.htm>