The core skills learned by the machinist apply to a wide range of careers in manufacturing, maintenance, mechanical work, design, and research and development.

- Louis Quindlen, Machine Technology Program, Laney College, Oakland, California

**DO YOU LIKE**

Working with tools? Figuring out the way things work and how they are made? Focusing on precision and quality? Learning advanced technologies with the latest software?

If so, a machinist career may be for you!

**FUTURE TRENDS**

Skilled machinists are in demand today, and demand will continue to grow as Baby Boomers retire from the workforce. Job opportunities will be available in a number of industries, including the water and wastewater industries, which benefit both communities and the environment. This vocation represents a real employment opportunity for individuals with the interest, aptitudes, and skills to obtain the multiple years of specialized technical training needed.

This brochure was published in 2014 by BAYWORK, a regional collaborative of water and wastewater utilities focusing on workforce reliability, in cooperation with Laney College.

**MACHINIST CAREERS**
WHAT MACHINISTS DO

Industries such as water, power, and manufacturing rely on talented individuals who have the training to create, maintain, and repair mechanical equipment. This precision work requires mathematical and problem-solving skills, as well as the ability to use both complex and heavy equipment. For example, machinists use their knowledge of the working properties of metals and their skill with machine tools to plan and carry out the operations needed to make machined products that meet precise specifications.

EDUCATIONAL OPPORTUNITIES

Chabot College  www.chabotcollege.edu
- Associate of Science Degree in Machine Tool Technology
- Certificate for Machine Technology
College of Marin  www.marin.edu
- Certificate for Machine Technology
DeAnza College  www.deanza.edu
- Associate of Science Degree in Computer Numerical Control (CNC) Machinist
- Certificate for Computer Numerical Control (CNC) Machinist
Laney College  www.laney.edu
- Associate of Science Degree in Machine Technology
- Certificate for Machine Technology
Napa Valley College  www.napavalley.edu
- Associate of Science Degree in Machine Tool Technology
- Certificate for Machine Tool Technology
San Jose City College  www.sjcc.edu
- Associate of Science Degree in Machine Technology
- Certificate for Machine Technology
Santa Rosa Junior College  www.santarosa.edu
- Associate of Science Degree in Machine Tool Technology
- Certificate for Machine Technology

JOBS NEEDED FOR THE FUTURE

<table>
<thead>
<tr>
<th>Machinists Mechanics</th>
<th>Apprentice-level</th>
<th>Journey-level</th>
<th>Supervisor-level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monthly pay</td>
<td>$4,700 - $5,600</td>
<td>$5,800 - $7,100</td>
<td>$7,800 - $9,000</td>
</tr>
</tbody>
</table>


LANEY COLLEGE

Laney College in Oakland offers an Associate of Science Degree in Machine Technology (60 units), as well as Certificates of Achievement in Machine Technology (37 units) and Industrial Maintenance (30 units). Laney’s Machine Technology Program is designed for both entry-level students and experienced machinists who want to upgrade their skills. The goal is to provide a foundation of skills which enable graduates to succeed at the highest level of the machine trade.

The curriculum provides hands-on experience with conventional and computer numerical control (CNC) machines. The program also covers the properties of metals; project planning; technical mathematics; engineering drawings; precision measurement and geometric dimensioning and tolerancing; and the use of CAD and CAD/CAM software.

Laney Machine Technology
900 Fallon Street, Oakland, CA 94607
Room G100  510.464.3444
www.laney.edu/wp/machine_technology