Imagine designing a fleet of automated drones or building a naval ship. Advanced manufacturing combines fields like engineering, computer drafting, biotech and more to design and build our future—everything from medical devices to the thermostat in your smart home.

How do I start my career?

Do some research
• Use Career Coach at workforce.org/careercoach to explore which occupations align with your interests, see a behind-the-scenes peek at what a career looks like and discover local companies.

Expand your network
• Use social media tools like LinkedIn to network with professionals. Request an informational interview to ask people about their career path, education and job responsibilities.
• Attend an event hosted by an industry organization like the San Diego Makers Guild.

Get hands-on experience
• Find a maker space like Fab Lab San Diego and take a class.

Get training
• Explore opportunities at a community college near you at CareerEd.org. You might consider these ones:
  → Machine Technology, San Diego City College
  → Advanced Manufacturing Technology programs, MiraCosta College
• Apply for an apprenticeship in a manufacturing career
  → For a list of all apprenticeships in the county, search: California Division of Apprenticeship Standards

Advanced manufacturing might look different from what you expect. The delicate nature of many products requires high-tech facilities, special skills and clean facilities.

Subsectors
• Aircraft & ship manufacturing
• Life sciences manufacturing
• Computer, communications & electronics manufacturing
• Other advanced manufacturing

Learn more at workforce.org/mynextmove
**What can I do?**

**sample occupations**

- **Electronics Engineers, Except Computer**
  - Employed 2018: 2,272
  - Median hourly pay: $59
  - Typical entry-level education: Doctoral degree

- **Aerospace Engineers**
  - Employed 2018: 941
  - Median hourly pay: $52
  - Typical entry-level education: Doctoral degree

- **Electrical Engineers**
  - Employed 2018: 1,201
  - Median hourly pay: $49
  - Typical entry-level education: Master’s or professional degree

- **Mechanical Engineers**
  - Employed 2018: 1,291
  - Median hourly pay: $44
  - Typical entry-level education: Bachelor’s degree

- **Electrical and Electronics Engineering Technicians**
  - Employed 2018: 1,306
  - Median hourly pay: $32
  - Typical entry-level education: Associate degree or certificate

- **Aircraft Mechanics and Service Technicians**
  - Employed 2018: 572
  - Median hourly pay: $30
  - Typical entry-level education: Associate degree or certificate

- **Machinists**
  - Employed 2018: 2,786
  - Median hourly pay: $22
  - Typical entry-level education: High school diploma or less

- **Computer-Controlled Machine Tool Operators, Metal and Plastic**
  - Employed 2018: 1,169
  - Median hourly pay: $22
  - Typical entry-level education: High school diploma or less

**FOUND PRIMARILY IN THIS SECTOR**

**COMMON IN THIS AND OTHER SECTORS**

- **Software Developers, Systems Software and Applications**
  - Employed 2018: 3,732
  - Median hourly pay: $52
  - Typical entry-level education: Bachelor’s degree

- **Medical Scientists**
  - Employed 2018: 251
  - Median hourly pay: $49
  - Typical entry-level education: Doctoral degree

- **Accountants and Auditors**
  - Employed 2018: 750
  - Median hourly pay: $34
  - Typical entry-level education: Bachelor’s degree

- **Computer Network Support Specialists**
  - Employed 2018: 108
  - Median hourly pay: $34
  - Typical entry-level education: Bachelor’s degree

- **Buyers and Purchasing Agents**
  - Employed 2018: 1,158
  - Median hourly pay: $31
  - Typical entry-level education: Bachelor’s degree

- **First-Line Supervisors of Production and Operating Workers**
  - Employed 2018: 2,319
  - Median hourly pay: $30
  - Typical entry-level education: High school diploma or less

- **Chemical Technicians**
  - Employed 2018: 247
  - Median hourly pay: $23
  - Typical entry-level education: Associate degree or certificate

- **Welders, Cutters, Solderers and Brazers**
  - Employed 2018: 2,045
  - Median hourly pay: $23
  - Typical entry-level education: High school diploma or less

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**Where can I work?**

**sample employers**

- **Solar Turbines**
  - ESTABLISHED: 1927
  - Provide gas turbine packages and services for oil, gas and power generation industries
  - 5,001–10,000 employees

- **Northrop Grumman**
  - ESTABLISHED: 1994
  - Aerospace and defense technology company that provides cyber security, space, strike and logistics assistance to government and commercial customers
  - 10,000+

- **Power Sonic Corporation**
  - ESTABLISHED: 1970
  - Delivers high-quality, high-value products, consulting, and support services in a single package. Industry-leading positions in servers, storage, wired and wireless networking, converged systems, software, services and cloud
  - 501–1,000

- **Acutus Medical Inc.**
  - ESTABLISHED: 2011
  - Develops technologies that help physicians and patients improve results related to heart conditions
  - 201-500

- **Senior Aerospace Jet Products**
  - ESTABLISHED: 1965
  - Produces complex machined rings and ring components in titanium, nickel, cobalt, stainless and aluminum alloys
  - 51–200

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Rev. 2019.01

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1 Number employed this industry group

★ Priority occupations are predicted to have high growth and a high number of annual job openings in San Diego County over the next five years

Educational levels are typical for each occupation, but various employers may have slightly higher or lower minimum requirements.

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**Found primarily in this sector**

**Common in this and other sectors**

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**Educational levels are typical for each occupation, but various employers may have slightly higher or lower minimum requirements.**