Gear Design Engineer: What Is

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What Is a Gear Design Engineer and How to Become One

By ZipRecruiter Marketplace Research Team

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What Does a Gear Design Engineer Do?

A Gear Design Engineer is responsible for developing and designing geared assemblies for various industrial purposes, sometimes including military applications. Gear Design Engineers analyze gear and spline designs to meet performance requirements, as well as other features that are essential to gearbox functionality, such as fluids, fasteners, bearings, and seals. Gear Design Engineers work to design, develop, and manufacture new and existing gear systems to help power vehicles and machines. They often meet customer specifications to create products designed precisely for clients' needs. Gear Design Engineers must be able to work both collaboratively and individually in order to complete their tasks.

How Can I Become a Gear Design Engineer?

Becoming a gear design engineer required you to have some formal qualifications and education, typically at least a bachelor's degree in mechanical engineering or a closely related field. You may wish to pursue a master's degree as well, and you should develop a mastery with computer-aided design, as most employers expect expertise with CAD or related design software. Lead engineers have at least four years of experience and have earned a professional engineer (PE) certification. Depending on the industry, you may be able to get an entry-level position with an associate degree in engineering, though advancement will almost certainly hinge on your continued education.

What Is the Responsibility of a Gear Design Engineer?

The responsibilities of a gear design engineer involve designing gearing systems. In this career, you work to analyze existing systems or create a new configuration that meets the needs of the project. Your duties include performing mechanical analysis on designs and creating plans that engineers can use during assembly of the gearing system. After you implement your ideas, you test it for function, form, and efficiency. In many cases, your designs include a gearmotor or similar driving device.

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Nearby Gear Design Engineer Jobs

Within 25 miles of New York, NY

Manufacturing Engineer
Crye Precision New York, NY
Pay: **$70K to $90K Annually**

Marine/Structural Project Engineer
Colliers Engineering & Design New York, NY
Pay: **$100K to $125K Annually**

Broadcast IT Engineer
WarnerMedia Services, LLC New York, NY

Mechanical Engineer
Professional Management Advisors Associates Inc New York, NY

Senior Software Engineer - Android
Fanatics, Inc. New York, NY
Pay: **$120K to $240K Annually**

Software Engineer, Observability
Vercel New York, NY
Pay: **$192K to $264K Annually**

Water Resources Project Engineer
Stv Group, Incorporated New York, NY

Water Resources Project Engineer
STV New York, NY

Engineer-in-Charge, NJ PBS - Fi...
The WNET Group Newark, NJ
Pay: **$109K to $134K Annually**

Network Engineer
GoNetspeed New York, NY
Pay: **$70K to $110K Annually**

Sr. Systems Engineer
100000 Motorola Solutions, Inc. New York, NY
Pay: **$114K to $156K Annually**

Part-Time Stationary Engineer (7...
Pratt Institute New York, NY
Pay: **$50.61 Hourly**

Smart Contract Engineer (EVM)
Waterfall New York, NY
Pay: **$120K to $200K Annually**