

## JOB POSTING

<b>Job Posting</b>	DES240424
<b>Job Title</b>	Mechanical Designer
<b>Location</b>	Ancaster, Ontario
<b>Qualifications</b>	Engineering Technology Graduate

<b>Date Posted</b>	April, 2024
<b>Job Type</b>	Full time
<b>Start Date</b>	Spring 2024
<b>Hours</b>	8:00 am to 4:30 pm plus some OT



### Engineering Technology Graduate

Applied Kinetics Inc. (established in 1998) is a full-service professional engineering and mechanical design company specializing in the design and analysis of automated machinery, tooling, and systems. This role would be under the supervision of licensed professional mechanical engineers with opportunities to expand the role for those considering continuing into an engineering degree in the future.

Applied Kinetics has proven its worth with successful projects in diverse industries such as:

- ▶ nuclear
- ▶ food processing and packaging, robotic assembly, material handling and welding
- ▶ heavy industry (steel making, steel processing)
- ▶ aerospace and automotive manufacturing

Typical work activities at Applied Kinetics would include:

- ▶ Mechanical design and drawings for tooling, components, machines, systems etc.
- ▶ Fixture design
- ▶ Plant layout, Process and Instrumentation Drawings (P&IDs)
- ▶ Sizing of fasteners, bearings, shafts, and structural members
- ▶ Selection and sizing of motors, sensors, instruments
- ▶ Mostly desk work, with some limited hands-on work (including site visits for diagnostics, measuring, building of prototypes in our shop, etc.)
- ▶ Access to our on-site prototype shop.

Applied Kinetics is a professional firm, registered with the Professional Engineers Ontario (PEO), and committed to the highest standards of professionalism. We feel that we have a lot to offer:

- ▶ Dynamic, exciting work environment with highly motivated and very experienced coworkers.
- ▶ Interesting variety of projects from a diverse variety of industries. Employees are encouraged to seek out opportunities that align with their interests and expertise.
- ▶ Progressive thinking regarding: engineering tools (CAD, FEA etc.), employee relations, work environment, advancement and training.
- ▶ 100% benefits package. Flexible time-off policies.
- ▶ Quiet, polite, pleasant work environment.
- ▶ Challenging, rapid, career advancement though encouragement for personal development and skills development.

To provide a superior level of services to clients, Applied Kinetics employs only the best and brightest with core interests in the technical side of mechanical engineering and technology.

## Skills

This position is targeted at new or recent graduates, but some work experience is an asset. Every new hire is paired with a mentor to help you develop. We've found that the following attributes are important to be successful at Applied Kinetics:

- ▶ An interest, and some experience, in machine design. This is the core of our business.
- ▶ A good understanding of core mechanical engineering fundamentals used for sizing of components (e.g., free body diagrams, material strength, load estimation).
- ▶ Hands on experience with mechanical or electro-mechanical systems (through school teams, hobbies, or work experience)
- ▶ Attention to detail.
- ▶ Know when to seek help for problems outside of your area of expertise.
- ▶ An aptitude for seeing how various aspects of a mechanical system interact with each other.
- ▶ The ability to convey ideas; excellent verbal and written technical communication and some experience in preparation of engineering drawings.
- ▶ Applied Kinetics is a small company. This requires a high degree of independence, ability to self-teach new skills, time management, and a willingness to take on all aspects of the business.

Knowledge and/or interest of some of the following key areas would be an asset:

- ▶ A good understanding of machining, manufacturing, and production methods.
- ▶ Understanding materials selection for a broad range of materials
- ▶ Interdisciplinary skills; basic understanding of controls, software, electrical, structural and civil disciplines so that you can think 'system wide'.
- ▶ Project management and organization.
- ▶ Understanding of the value of the 'design process' and how to move step by step from customer inquiry to finished product.

## Qualifications

The successful applicant will be a recent graduate with at least a 3 year engineering technology (CET) degree. Applicants should provide transcripts for at least the 2 last years of the degree.

Reply in confidence via email to:

jobs@appliedkinetics.ca  
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Applied Kinetics Inc.  
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All applications MUST include the **job posting number DES240424 in the email subject**. In-person applications are accepted by appointment (through email) only. All applicants are expected to also fill out an online application. See our website (<https://www.appliedkinetics.ca/>) under 'Careers' for details.