

JOB POSTING

Job Posting	DES240418
Job Title	Mechanical Designer
Location	Ancaster, Ontario
Qualifications	Engineering Graduate

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



Mechanical Designer (New or Recent Graduate)

Applied Kinetics Inc. (established in 1998) is a full-service professional engineering and design company specializing in the design and analysis of automated machinery, tooling and systems. This position is a P.Eng track position, working directly with experienced professional engineers.

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, drawings, and work to support the design (selection and sizing of components)
- ▶ Finite Element Analysis (FEA) for stress, strength, deflection, strain, and natural frequency
- ▶ Kinematic and motion-system analysis
- ▶ Mechanical-system failure analysis
- ▶ Plant layout and value stream analysis
- ▶ Internal and customer meetings to propose and review concepts
- ▶ Quoting and proposing new projects
- ▶ Mostly desk work, with some limited hands-on work (including site visits for diagnostics, measuring, building of prototypes in our shop, etc.)

Applied Kinetics is a professional firm, registered with the 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.
- ▶ 100% benefits package.
- ▶ Quiet, pleasant work environment.
- ▶ Challenging, rapid, career advancement though encouragement for personal development and skills development.
- ▶ Flexible time-off policies

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

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 a high level of engineering expertise. 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 such as free body diagrams, stress analysis, heat transfer, kinematics, and dynamics.
- ▶ Attention to detail and a drive to eliminate assumptions with analytical verification.
- ▶ 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.
- ▶ Know when to seek help for problems outside of your area of expertise.

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

- ▶ Understanding materials selection for a broad range of materials
- ▶ Interdisciplinary skills; basic understanding of controls, software, electrical, structural and civil engineering.
- ▶ Hands on experience with mechanical or electro-mechanical systems (through school teams, hobbies, or work experience)
- ▶ Project management
- ▶ Understanding of the value of the design process

Qualifications

The successful applicant will be a new or recent graduate with an accredited engineering degree. Applicants should provide transcripts for at least the 2 last years of the degree.

Reply in confidence via email to:

jobs@appliedkinetics.ca
Engineering Manager
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All applications **MUST** include the **job posting number DES240418 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 under 'Careers' for details.