

JOB POSTING

Job Posting	DES110302
Job Title	Mechanical Design Engineer
Location	Ancaster, Ontario
Qualifications	Engineering Graduate

Date Posted	March 2, 2011
Job Type	Full time
Start Date	Spring 2011
Hours	8:00 am to 4:30 pm plus some OT



**Professional Engineers
Ontario**

Authorized by the Association of
Professional Engineers of Ontario
to offer professional engineering
services.

Graduate Mechanical Design Engineer

Applied Kinetics Inc. is a full-service professional engineering and design company specializing in the design and analysis of automated machinery. Applied Kinetics was established in 1998.

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

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

In addition to design services, Applied Kinetics provides valuable engineering analysis capabilities including:

- ▶ Finite Element Analysis (FEA) for stress, strength, deflection, strain, and natural frequency
- ▶ Kinematic and motion-system analysis
- ▶ Interference analysis
- ▶ Mechanical-system failure analysis
- ▶ Plant layout and value stream analysis

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

- ▶ Dynamic, exciting work environment with highly motivated coworkers.
- ▶ Interesting variety of projects including robot integration, custom robotics, hard-automation, chip-removal (machining) systems, etc.
- ▶ Diversified variety of industries including automotive, pharmaceutical, food, and heavy industry, and others.
- ▶ 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

In order to provide a superior level of engineering and design services to clients, Applied Kinetics employs only the best and brightest mechanical design engineers. Our compensation package reflects our desire to acquire and retain only the highest caliber of engineers.

Some skill in the following fundamentals is a requirement of this position:

- ▶ Machine design
- ▶ Kinematic and high-speed motion analysis
- ▶ Stress analysis for machine design
- ▶ Preparation of engineering drawings
- ▶ Verbal and written technical communication

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

- ▶ Nuclear standards and quality systems
- ▶ Materials for nuclear applications
- ▶ Servo systems design
- ▶ Parametric solid modeling
- ▶ Continuous motion machinery design
- ▶ Robotic work cell design
- ▶ Food and pharmaceutical equipment design
- ▶ Tooling and fixture design
- ▶ Structural engineering
- ▶ Project management
- ▶ Plant design and analysis
- ▶ Design team leadership

Qualifications

The successful applicant will be graduating this spring with an engineering degree, or an engineering technology diploma. Applicants should provide proof of successful completion of the following key courses, or be able to demonstrate knowledge of such in an interview:

- ▶ Static analysis of structures
- ▶ Dynamic analysis of machines
- ▶ Machine design
- ▶ Mechanics of materials
- ▶ Properties of engineering materials

Reply in confidence via email only to:

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All applications MUST include the **job posting number DES110302 in the email subject**. All applications must have the **cover letter, resume, and summary of grades as a single PDF file attachment**. All applicants are expected to also fill-out an online application. See our website under 'Careers' for details.