

Like you, we start where others stop! AIP Industries is driven to take on industry's toughest challenges to solve them with innovative machine technologies.

At AIP Industries, our primary goal is to help our clients turn their visions into reality and reach their potential and business goals. We measure projects in terms of impact to our clients and on the World, always striving to give more than we receive, returning multiples in value over any investment.

Our clients are as varied as the projects we undertake, from climate and cleantech, through energy sector and industrial manufacturing. We specialise in “never-been-done-before”. If you are looking for status quo, already been done before solutions, we probably aren't your people. **We strive to do everything better ... always!**

We take tremendous pride helping develop the next generation of sustainable technologies while embracing and improving the industries that have made us who we are today. In over 20 years of experience, AIP Industries has consistently demonstrated our ability to take value propositions from back of the napkin sketch to finished product. Our team works collaboratively with our clients through the entire process including design, prototype, machining, assembly, and testing.

As serial problem solvers in a growing company, we invite the brightest, hands on, practical, courageous, persistent, passionate lifelong learners and true builders to join us and help our clients succeed.

Together with our clients, *“Anything Is Possible”*

Job Purpose

Reporting to the General Manager, Engineering, the role of a Senior Analysis Engineer is AIP's team technical expert in Computational Fluid Dynamics (CFD) and/or Finite Element Analysis (FEA) and is accountable for owning the efficient execution of the lifecycle of projects, solving the business problems of internal and external clients. Your technical expertise and ability to mentor staff will be instrumental in guiding our more junior resources, developing analytical and engineering processes and tools, and providing training to our internal resources. Projects – whether executed as a single engineer or as part of a supportive and collaborative team – are resourced based on the individual's and the team's strengths, experience, and scheduled availability. We will provide the tools, resources, training, and strategy, for our clients, the business and you to be successful.

The Right Seat

Accountabilities & Key Performance Indicators:

- Delivering client value with the right solution to the problem presented
- Efficient use of client resources, delivering projects on time and on budget

Key Typical Deliverables:

- Framing Documents
- Sales Quotes and Estimates
- Proposal of right solution and analysis approach to the problem presented
- Simple yet accurate representation of complex geometry
- Engineering analysis reports

The Right Person

Successful applicants will have a strong sense of accountability, a mindset of “do what it takes, anything is possible”, and the ability to provide the right solution and tackle any job where hands are required, be it at the desk, in the shop, meeting the client or in the field. You will be appreciative of and supportive of the multi-disciplinary teams that work within AIP Industries and within our client’s businesses.

In providing machine technologies solutions, AIP’s projects encompass cross-functional skillsets. As an analyst engineering specialist, experience in the following are highly desired:

- 10+ years experience in a client facing engineering role, including demonstrated experience and specialisation in CFD and/or FEA. Graduate degree in Aeronautical, Mechanical or Mechatronics Engineering, and active membership with APEGA.
- Detailed use of computational analysis software packages such as:
 - ✓ Ansys Fluent; Ansys CFX; Ansys Mechanical; OpenFOAM; COMSOL Simsolid or SimScale.
- Management of on-premise computational clusters or cloud-based computing platforms.
 - ✓ AIP has a Linux, Rocks based 128 core cluster.
- Demonstrated experience in a variety of analytical problems:
 - ✓ Compressible & incompressible flow; Turbulent and laminar flow; Multiphase flow; Mass and thermal transport; Erosion control; Flow at high temperatures and pressures; Combustion analysis; Multiphysics systems; Structural and heat transfer analysis of equipment at combined high pressures, temperatures and in motion.
- Programming skills for the pre- and post-processing of data. Experience in Agile project execution is considered an asset. Possess the courage to “fail fast,” accept and drive change.
- Attention to detail and the holistic analytical ability to see how systems flow together, with excellent communication skills to facilitate leading teams efficiently.
- High level of emotional intelligence (EQ) integrated with being open minded and with a positive approach to enhancing work relationships. Apply collaborative problem-solving, value input from all, and able to receive and give feedback constructively.
- Exceptional work ethic, comfortable and highly motivated to apply head-skill, hand-skills to other engineering aspects of our machine technology projects where CFD and FEA may not be required.
- Ability to think like an entrepreneur, with a desire to love the client’s problem, respect their resources, and provide practical solutions at a pace that can meet client deadlines.

AIP believes in the “uncommon sense” implementation of simple, well documented, repeatable business practices proven to be successful. Supplementing this, AIP is implementing the Entrepreneurial Operating System (EOS) process framework where it is required.

Applying

The position is in Calgary, Alberta, Canada. Some limited travel is to be expected.

AIP welcomes all Canadian citizens and Permanent Residents of Canada, without bias. We invite you to apply with your resume AND cover letter through **Indeed.ca** or via hr@AIPindustries.com.

Due to the mindset, skills and experience required to solve the business challenges we tackle, we expect to only be able to respond to a select few applicants for interview. The position will remain open until a suitable candidate is selected.