

## Engineering Analysis Consultant FEA , CFD

Matrix CAE Team provides software and consulting in meeting our Customers needs in engineering analysis and design optimisation. You will provide technical project consulting and support services to our existing Customers, as well as investigate new potential application areas and assist with the promotion of solutions to these application areas.

Software applications we sell and support, and also use in consulting projects include ABAQUS, MSC/Patran, MSC/Nastran, UGS/FEMAP/NX NASTRAN, STAR-CD CFD, MOLDFLOW. These technologies, combined with our expertise, is applied to solve problems in manufacturing, plant & process, utilities, marine design, and other industries involved with engineering design in multi-physics environments.

Following is a more detailed job description for this new person:

*Role ( approx. % of time ) - Description*

**Finite Element Analysis Consulting ( 60% )** - Provide finite element analysis consulting, mainly in the mechanical engineering analysis and CFD field. Areas of specialisation may include fatigue, cracking, design optimisation, multi-physics, fluid/structure, etc. - depending upon personal professional experience. Efficient time usage and completion of project work and concise report writing, focused on customer results to tight deadlines will be an ongoing challenge.

**FEA Pre-Sales Support ( 10% )** - Assist with the selling process for the supply of software solutions for our Customer's in-house use. Listen to needs, help propose solutions working with Sales Engineers, provide demonstrations and benchmarks.

**FEA Technical Support ( 10% )** - Provide technical training and Helpdesk support "on-call" for Customer base of end users that Matrix supports.

**MCAD Technical Support Backup ( 10% )** – Become technically competent in the use of SolidEdge as backup technical support. Become proficient in any related embedded FEA products within the "mid-range" MCAD market.

**CAE Marketing ( 10% )** - Help action marketing programs with the long term goal of growth in NZ market share. Take ownership of several niche CAE markets in New Zealand depending upon experience base. Develop a professional network and pursue work for Matrix. Help develop new marketing plans for advanced engineering analysis targeting select NZ growth industries, e.g. alternate energy, biomedical, food processing, marine.

*Reporting*

CAE Team Leader

*Key Qualifications*

Computer-aided Engineering Analysis (FEA, CFD, etc.) industry experience. Industry/commercial experience of 3+ years minimum preferred. An advanced University degree or other advanced qualifications and professional affiliations are expected.

Hands-on use of specific FEA and CFD software – ABAQUS, MSC/Patran, MSC/Nastran, UGS/FEMAP/NX NASTRAN, STAR-CD CFD, MOLDFLOW necessary.

Confidence, energy, a sense of urgency, fast learning skills, time management skills, a positive attitude, and excellent listening and verbal and written communication skills are required.

*The Position*

Remuneration will consist of base+incentive+bonus with an OTE of \$50-100K (depending upon experience and targets). The incentive component will be significant and based upon a percentage of gross profit on billing and overall CAE team results. Tools of the trade such as mobile phone, computing resources are provided. Ongoing career development and training are supported. Matrix people enjoy an open, flexible, dynamic, and rewarding working environment.