

## AUSTMINE WOMEN IN STEM: METS CAREER PATHWAY PROGRAM Student Intern Positions – Summer November 2018 – February 2019

Please find below a list of proposed internship placements confirmed with our member companies. Student applications will open on 1 August 2018. Austmine will be hosting an information session at Universities during August and for more information visit our website [here](#) or email [info@austmine.com.au](mailto:info@austmine.com.au).

### WA Positions

#### Assetivity

Location: South Perth, WA  
Website: <https://www.assetivity.com.au/>  
Discipline: Mechanical Engineering



#### Position description

Assetivity offers career opportunities for keen, motivated individuals, who are keen to “make a difference” in developing and implementing Asset Management, Operations, Maintenance and Supply improvements at our varied range of resource sector clients.

The project you work on will depend on timing. But during your internship, you will be placed with a coach to learn and assist in finding, winning, and performing consulting assignments, as well as coaching, mentoring and training our clients staff in one or more of the following areas:

- Physical Asset Management
- Operations Improvement
- Maintenance Improvement
- Supply and Contracts Improvement

#### Company description

Assetivity is a consulting and training organisation that specialises in physical asset management. They focus on making improvements to engineering, production, maintenance and supply management processes and systems for organisations in capital intensive industries.

#### Additional information

Assetivity are looking for students with:

- Microsoft Office skills

#### Further Information

This position is aimed for students in the second to last years of study.

#### G&G Mining Fabrication Pty Ltd

Location: Hazelmere, WA  
Website: <https://ggminingfab.com/>  
Discipline: Mechanical / Materials / Manufacturing Engineering



### Position description

This role will depend on the successful applicant, their skills and interests. There are opportunities to work in mechanical design, manufacturing engineering, planning and estimating, quality, service engineering, as well as exposure to purchasing, finance, marketing and sales.

This is an excellent opportunity to join a growing business and to work on new and innovative products. As a specialised designer, manufacturer and repairer of mining equipment attachments (including excavator buckets, dump truck bodies, water tanks) and associated services, gain experience from all aspects of the business.

### Company description

G&G Mining Fabrication (G&G) is a subsidiary of the steel manufacturer SSAB. G&G specialises in the design, manufacture, repair and refurbishment of high quality engineered attachments, components and supply of associated industry services across both mobile and fixed plant applications to the mining, quarrying, construction and recycling industries. G&G are focussed on stronger, lighter and more productive solutions.

### Additional information

G&G Mining Fabrication are looking for students with:

- Strong computer skills

## Sandvik



Location: Canning Vale, WA

Website: <https://www.home.sandvik/en/contact/world/oceania/australia/>

Discipline: Mechanical / Mining / Industrial or Data Science Engineering

### Position description

Sandvik is a high tech and global engineering company and this role/internship sits within Sandvik Mining and Rock Technology (SMRT) business, in which the automation business line is a part of. The SMRT business currently has an increased focus on the digitalisation of machinery within the mining industry. As an intern you will be working on an excel based project, analysing information and running models and working in their CRM reviewing processes. This is a great opportunity to be with a company with an open-minded culture, actively working to create a workplace that is characterized by diversity and inclusion.

### Company description

Sandvik is a high tech and global engineering company with over 43,000 employees worldwide with a strong commitment to productivity, profitability and safety. There are three main business areas including Sandvik Machining Solutions, Sandvik Minerals Technology and Sandvik Mining and Rock Technology (SMRT) and we currently have 1331 number of employees in the APAC region. The role/internship sits within SMRT business, in which the automation business line is a part of. The SMRT business currently has an increased focus on the digitalisation of machinery within the mining industry.

### Further Information

The successful applicant will undergo a pre-employment medical as part of the employment process at the employer's expense. This is a normal step for many companies engaging in physical or manual activities.

## SRK Consulting



SRK Consulting is offer 2 different positions as set out below:

Location: West Perth, WA  
Website: <https://www.srk.com.au/en>

### Position 1:

Discipline: Civil or Geotechnical Engineering

#### Position description

See how your can apply your classroom learnings and assist graduate and senior Engineers on a variety of tailings and mine waste projects. Typical tasks may include, but are not limited to, technical support with engineering analyses such as stability, seepage, and water balance modelling or providing input to technical deliverables such as proposals and reports. Be part of the Perth-based team which provides excellent opportunities for mentoring in addition to challenging projects and the opportunity to learn design input to best practice standards.

### Position 2:

Discipline: Geology or Geochemistry

#### Position description

Assist the Geochemistry team on a variety of projects interpreting chemical data for waste rock and tailings. This work typically has a focus on chemical properties related to acid and metalliferous drainage (AMD) and provides inputs to studies at various stages of mining project development from permitting through to closure. This internship will provide you with a friendly learning and work environment with the opportunity to build on your skills and experience.

#### Company description

SRK Consulting is an employee-owned, independent, international consulting company, providing focused advice and solutions to the resources industry. SRK offers specialist geoscientific, engineering and environmental services across the entire life cycle of mining projects to a range of clients across Australia and throughout the world.

#### Additional information

SRK Consulting are looking for students with:

- Basic Microsoft Office skills
- Communication skills

## Byrnegut

Location: Site based, WA  
Website: [byrnegut.com.au](http://byrnegut.com.au)  
Discipline: Mining Engineer



#### Position description

Byrnegut are offering an underground site based internship for a large underground mining contractor, within Australia.

Working for Byrnegut will teach you about efficient hard rock underground mining in Australia and gain some practical underground vacation work experience, so that the next semester at university will make a lot more sense.

### Company description

With over 4,000 employees, the Byrncut Group is a full service underground mining contractor, providing services to major mine owners throughout Australia and internationally. We operate a multi-million dollar fleet of specialised underground mining equipment across multiple continents and conditions.

The Byrncut Group has evolved over the last 30 years to become a diverse group of companies, able to provide a wide range of services to the mining industry and beyond.

Initially an underground mining contractor, the group has taken its cues from the changing requirements of the industry to offer specialised and tailored solutions to its clients from its companies that include:

- *Byrncut Australia*: Australian Underground Mine Contracting; *Byrncut Offshore*: International Underground Mine Contracting; *Mining Plus*: Mine Consultancy Services; *Murray Engineering*: Mechanical and Electrical Engineering Services; *SRO Group*: Electrical Engineering & Mechanical Fabrication; *Quattro Engineering*: Project Engineering Services; *Jetcrete Oz*: Shotcreting Services; *Raising Australia*: Raise Drilling Services; *BOAB*: Indigenous Training Services; *Sano Health*: Health & Injury Prevention Services.

Byrncut has been in the underground mining business for over 30 years, weathering both the good and the bad times and proving that we can innovate as well as being a solid contracting company with extensive experience and professional knowledge in the industry.

### Additional information

Byrncut are looking for students with:

- MS Excel skills
- Good communication skills
- Problem solving skills

## Global IO



Location: Balcatta, WA  
Website: <https://www.globalio.com/>  
Discipline: Data science

### Position description

Global IO is a specialist consulting firm focused on designing, implementing and operating Integrated Operations programs. The Company helps to create collaborative environments and processes that optimise the human and automated interfaces within the value chain, partnered with the development of an enterprise-aware culture.

This internship is providing a student the opportunities to apply their studies in real world application and work with a dynamic team. From the data supplied through their data sources, this role would be required to extract knowledge and insights from this data using algorithms, systems and processes and then advise on the next steps on what we can do with this data, for example: machine learning capabilities, data visualization etc. The role will also require the ability to utilise the data and develop predictive modelling.

To be successful in this internship, Students must understand data analytics, data science and have advanced computer skills. Programming skills and software engineering skills would be an advantage.

### Company description

Being at the core of many large-scale IO deployments, Global IO have built a reputation for radically transforming some of the world's leading businesses.

Being operations focused, ensures that they expertly guide clients throughout the complete lifecycle of a large-scale IO program. Global IO know that every organisation is unique and requires a solution specifically tailored to deal with the key domains of people, process and technology to address their specific needs.

Through carefully nurturing high performing cultures that uses value driven processes and tools, their clients are able to sustainably lock in the benefits realised by real-time value chain optimisation.

### Further Information

This position is only open to students who are currently in their fourth year or master's degree.

## Key Engineering Solutions



Location: Perth, WA  
Website: <http://keyengineering.com.au/>  
Discipline: Any engineering discipline

### Position description

Key Engineering is providing an intern the opportunity to see what a control systems engineer does in real world application, by working alongside their engineering employees. The student will be involved with the design and implementation of process control strategies within the mining industry. This will include exposure to PLC programming, SCADA design and industrial communications. The participant will also assist with process analysis and be introduced to control improvement methodologies.

Students can expect to undertake, but not limited, to PLC programming. SCADA design and configuration, control system architecture implementation, process analysis, process optimisation execution plant insight dashboard creation and data solutions development.

### Company description

Key Engineering Solutions is committed to finding and implementing tangible and sustainable improvement solutions to businesses in the mining, oil & gas, agricultural, building services industries and many more. Their Core Capabilities include Process Control, Control Systems Support, Business Improvements and Software Development. At Key Engineering, their highly skilled and diverse team comprehensively understand, conceptualise and propose high quality solutions with the aim of eliminating any challenges their customers may be experiencing.

What makes them unique is that, they complete each engagement with a focus on solution sustainability. Key Engineering Solutions see each engagement through by implementing and commissioning proposed changes and ensure the highest quality of coaching and training of all appropriate personnel. Key Engineering Solutions recognise the importance of this critical, though often overlooked, final step of acceptance of the solutions, from within the organisation. Their effective communication of any changes ensures continued improvement operation long after completion.

### Additional information

Key Engineering Solutions are looking for students with:

- Basic computer skills



Location: Perth, WA  
Website: <http://www.snclavalin.com/>  
Discipline: Mechanical, Electrical, Structural, Instrumentation, Piping, Telecommunication or Process/ Chemical Engineering

### Position description

This role will include, but not be limited to, the following activities:

- Exposure to Design activities
- Discipline specific calculations
- Liaising with design team
- Interacting with clients
- Researching and collating briefing documents
- Reviewing Project Management plans – for example, estimate & plan for budget, schedule, contracting strategy
- 3D design input and review
- Potential for exposure to site project work
- Presentation of internship at the end of engagement

### Company description

SNC-Lavalin is a global Engineering and Construction company with over 55,000 employees.

SNC-Lavalin is divided into four sectors to meet the requirements of their clients, namely: Mining and Metallurgy, Oil and Gas, Infrastructure and Power.

SNC-Lavalin Mining and Metallurgy (M&M) has a world-class reputation in consulting, design, engineering and construction of processing facilities for mining, including all infrastructure components required for remote project development. Their approach embodies strong project management, technological excellence, quality assurance and strict compliance to the protection of the environment and safety of operation.

The Perth office is one of SNC-Lavalin's Centres of Excellence, with a highly experienced team of specialists across a wide range of commodities including alumina, gold, nickel, copper, Rare Earths, iron ore, coal etc.

SNC-Lavalin's assignments in the region range from technical audits, scoping studies, pre-feasibility and feasibility studies to full engineering, procurement and construction contracts.

### Additional information

SNC-Lavalin are looking for students with:

- Competency with the Microsoft Office suite
- Experience in previous customer focused roles

### Further Information

The successful applicant will undergo a pre-employment medical assessment (at the employer's expense) and police check (at the candidate's expense) as part of the employment process. This is a normal step for many companies.

## IMDEX Limited



IMDEX is offering 4 positions in 4 different disciplines.

Location:	Balcatta, WA
Website:	<a href="https://www.imdexlimited.com/">https://www.imdexlimited.com/</a>
Discipline / Position 1:	Geosciences
Discipline / Position 2:	Mechatronics Engineering
Discipline / Position 3:	Engineering (Software)
Discipline / Position 4:	Materials Science

### Position description

IMDEX Limited is seeking enthusiastic and highly motivated Women in STEM students (Geosciences, Mechatronics Engineering, Software Engineering and Materials Handling) to work on a number of “hands-on” projects.

The projects are “cutting edge” and will provide you with the opportunity to gain invaluable work experience that will be highly attractive on your resume. You will also benefit from being mentored by industry professionals who will work closely with you to ensure your work is meaningful and relevant.

### Company description

IMDEX Limited is a global mining equipment, technology and services (METS) company. The IMDEX solution sets to improve the process of identifying and extracting what is below the earth’s surface for drilling contractors and resource companies – IMDEX lets clients know where it is and what it is, now.

IMDEX delivers these solution sets, which include: Drilling Optimisation; Downhole Navigation, Structural Geology; In-Field Geoanalysis; and Driller Operable Geophysics, to the global minerals industry and targeted non-mining applications via the leading REFLEX and AMC brands.

### Additional information

IMDEX is looking for students with:

- Excellent communication and interpersonal skills
- High attention to detail
- Excellent computer literacy
- Willingness to learn new skills
- Capable of working in at team and also autonomously

### Further Information

This position is only open to students who are currently in their fourth year or very capable third year students only.

## Safescape



Location:	Forrestfield, WA
Website:	<a href="https://www.safescape.com/">https://www.safescape.com/</a>
Discipline:	Mechanical engineering or Mechatronics engineering

### Position description

Safescape are seeking an enthusiastic intern, ideally with some knowledge or experience of robotic manufacturing facilities, to gain invaluable work experience, learning and working with a dedicated design and development team, focused on product improvement and development.

### Company description

Safescape are committed to delivering practical innovation in mining. Safescape designs, manufactures and markets safety products to the mining industry, worldwide. They use cutting edge materials and manufacturing technology to support their product delivery.

## Downer EDI Services



Location: Perth, WA  
Website: <https://www.downergroup.com/>  
Discipline: Computer Science

### Position description

Downer is providing students the opportunity to gain exposure and experience working within a software development team. This role will include, but not be limited to, the following activities:

- Assist software development team on product development tasks (with guidance and code reviews)
- Build small POC's based on a documented user stories and performing research on how to achieve these
- Development Environment Maintenance tasks
- Assist with testing activities

### Company description

At Downer, their customers are at the heart of everything they do. Downer's purpose is to create and sustain the modern environment by building trusted relationships with their customers. Downer's promise is to work closely with their customers to help them succeed, using world leading insights and solutions.

Downer designs, builds and sustains assets, infrastructure and facilities and they are the leading provider of integrated services in Australia and New Zealand with a history dating back over 150 years.

The Downer Digital team deliver leading edge technology solutions leveraging cloud platforms such as Microsoft Azure. The types of projects they get involved in range from Business Intelligence, Internet of Things, App Development, Advanced Analytics and Data Science.

Downer Digital's solutions are utilised by every division in Downer, which means they get exposure to many industries such as mining, rail, road construction, facilities managements among others.

Visit the website for a full overview of the organisation.

### Additional information

Downer is looking for students with:

- Software development skills
- Microsoft.Net programming
- Azure Cloud Services skills desirable
- Data science tool sets desirable



## Engenium



Location: Perth CBD, WA  
Website: <http://www.engenium.com.au/>  
Discipline: Engineering (Structural, Civil, Mechanical or Electrical)

### Position description

Engenium is providing students with the opportunity to gain exposure and experience working with their engineers and designers on company mining and industrial projects. This role will include, but not be limited to, the following activities:

- Learning and using relevant engineering and design packages
- Attending design and project meetings
- Interacting with other disciplines

### Company description

Engenium is a progressive project delivery company servicing the Resources, Rail and Infrastructure sectors. They have developed a reputation for responsiveness, flexibility and successfully delivering their services to both the emerging producers and Australia's major resource companies.

### Additional information

Engenium is looking for students with:

- Good computer skills
- Willingness to learn
- Initiative
- Good communication skills
- Ability to work to deadlines in a team environment

## Caterpillar of Australia



Caterpillar of Australia (CAT) are offering 3 positions as follows:

Location: Perth, WA  
Website: [https://www.cat.com/en\\_AU.html](https://www.cat.com/en_AU.html)

### Position 1:

Discipline: Mechanical Engineering

### Position description

Caterpillar is committed to developing and maintaining a diverse workforce of skilled professionals to serve their customers. A key way to achieve this is to invest in new entrants to the workforce, by providing experiences that will support them in becoming well rounded professionals.

The main objective of this role is to assist the Caterpillar Mining Product Support Team in working with their dealer WesTrac and customers to resolve / manage product issues and improve product performance. This will involve participating in and/or conducting the following tasks:

- Warranty data analysis
- Analysis of failed iron
- Creation of projects to resolve product issues
- Identifying possible containment actions for product issues

- Communicating between WesTrac and various mining product groups
- Possible participation in maintenance & repair improvement projects on mine sites

#### **Additional information**

Caterpillar is looking for students with:

- Basic computer skills
- Good communication skills

#### **Further Information**

The successful applicant will undergo a pre-employment police check, employment verification and medical assessment (at the employer's expense) as part of the employment process. This is a normal step for many companies.

#### **Position 2:**

Discipline: Mining / Process / Communications / Mechatronics Engineering, Computer Science

#### **Position description**

Caterpillar is providing students with the opportunity to be exposed to the process of identifying, quantifying and delivering on value through the deployment of system and machine technologies at mine sites. They will be exposed to the concepts of; data management, outcome based process mapping, adoption of technology systems and return on investment qualification. The student will be involved with assisting the team as they conduct site visits, the auditing of site operations, preparation of value studies, documenting work flows and designing commercial solutions to customer problems.

#### **Additional information**

Caterpillar is looking for students with:

- Moderate level computer skills
- Moderate level communication skills
- Basic document writing skills
- Moderate self presentation skills
- Basic to moderate travel ability

#### **Further Information**

The successful applicant will undergo a pre-employment police check, employment verification and medical assessment (at the employer's expense) as part of the employment process. This is a normal step for many companies.

#### **Position 3:**

Discipline: Mechanical / Mining Engineering

This is a full-time graduate role, commencing January 2019. Based in Perth, WA, but involves travel to other locations, including FIFO work

#### **Position description**

Caterpillar is committed to developing and maintaining a diverse workforce of skilled professionals to serve their customers. A key way to achieve this is to invest in new entrants to the workforce, by providing experiences that will support them in becoming well rounded professionals.

Caterpillar is providing a graduate role, commencing January 2019.

As a graduate in the Mining Technology team, you will be provided with exposure to a number of different facets of the autonomous solutions group, giving you a solid foundation upon which to build a career. Caterpillar's Autonomous Solutions are at the forefront of the industry, and this role will give a

unique opportunity for someone to gain experience from sales to implementation through to aftermarket support to Caterpillar's customers.

The successful incumbent will undertake rotations within Caterpillar's Mining Technology Enabled Solutions Team which may involve the following rotations:

- Implementation team – facilitate the installation of new technology roll outs and system upgrades
- Consulting team – partner with dealers to provide unique solutions to customer for technology solutions
- Commercial team – support the dealer for sales opportunities within the region
- Operations team – operational support for the autonomous mine sites. Based at a customer site.

### **Additional information**

Caterpillar is looking for a graduate with:

- Moderate computer applications skills
- Moderate level communication skills
- Moderate level problem solving skills
- Moderate self presentation skills
- Self starter and able to use initiative where appropriate
- Basic to moderate travel ability

### **Further Information**

The successful applicant will undergo a pre-employment police check, employment verification and medical assessment (at the employer's expense) as part of the employment process. This is a normal step for many companies.

### **Company description**

For more than 90 years, Caterpillar Inc has been making sustainable progress possible and driving positive change on every continent. Customers turn to Caterpillar to help them develop infrastructure, energy and natural resource assets.

With 2017 sales and revenue of \$45.462b, Caterpillar is the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. The company principally operates through its three primary segments – Construction Industries, Resource Industries and Energy & Transportation – and also provides financing and related services through its Financial Products segment.

**CSA Global**



**CSA Global**  
Mining Industry Consultants

Location: Perth, WA  
Website: <https://www.csaglobal.com/>  
Discipline: Mining Engineering

### **Position description**

CSA Global is providing students with an opportunity to apply the theory and concepts from university and put them to work as you assist the CSA Global engineers with reviews, mine designs, mine schedules and other projects. Some of the work you may be involved with may include geotechnical slope stability, underground stope designs, supporting engineering analyses in commodities such as iron ore, gold, graphite, lithium and other minerals. You will be part of a Perth-based team which will

provide mentoring, exposure to a wealth of knowledge and challenge, and provide opportunities to be involved in hands-on mine planning projects from around the world.

### **Company description**

CSA Global is a mining, geological, technology and management consulting company providing strategic services and advice to companies to the international mining industry for more than 30 years. CSA Global services mining clients worldwide from its offices in Australia, Indonesia, Singapore, South Africa, United Arab Emirates, Russia, the United Kingdom and Canada. CSA Global provides independent, quality and trusted advice for clients by assisting them to maximise their potential through excellence, innovation and collaboration.

### **Additional information**

CSA Global is looking for students with:

- Microsoft Office suite skills (Word, Excel, Powerpoint as a minimum)
- Familiarity with mine planning software is preferred, but not mandatory
- West Australian manual car license is useful, but not mandatory
- Ability to travel, though travel is not guaranteed

## **CSIRO**



Location: Kensington, WA  
Website: <https://www.csiro.au/en>  
Discipline: Geoscience

### **Position description**

The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is providing students with an opportunity to work on research projects with the CSIRO Minerals Research scientists. The student will have the opportunity to use the state-of-the-art ARRC micro-characterisation laboratory facilities at CSIRO, and will be expected to produce and interpret geological data.

### **Company description**

CSIRO is the federal government agency for scientific research in Australia. It currently employs more than 5000 people across all disciplines of science.

The main objectives of CSIRO's research are to support the economic and social performance of industry, to the benefit of the global Australian community.

Specifically, CSIRO Mineral Resources aims to promote effective exploration and discovery of new mineral resources through advances and expertise in detection technologies, mineral systems, resource characterisation and data analysis.

### **Additional information**

CSIRO is looking for students with:

- Basic computer skills
- Basic geoscience knowledge