

Senior Power System Studies Engineer

Merz Consulting, Perth

About us

Merz Consultancy Pty Ltd is an employee owned company comprising a team of high-calibre strategic consultants, energy economists, engineers, technicians and project delivery professionals. We specialise in power distribution, transmission and generation projects.

The Merz team deliver projects from idea inception, through power system planning and feasibility studies, detailed design, commissioning and ongoing support. We also provide a comprehensive range of energy-related services and independent specialised opinions.

What we are looking for

We are looking for a Senior Power System Engineer for our Perth office.

About the Role

The Senior Power System Engineer will:

- Carry out and coordinate power system modelling and studies in different power system simulation software packages including PowerFactory, PSS/E, PSCAD and ETAP. Use automation tools, including Python and DlgSILENT Programming Language, to perform simulations efficiently.
- Determine simulation methodology, interpret and justify simulation results, draw conclusions and provide recommendations from the simulations.
- Write and review power system studies project proposals, technical notes, and reports.
- Mentor and coach junior power system engineers including necessary review and technical supports.
- Provide power system support and advice to other teams.
- Develop and deliver presentations to clients.
- Undertake generator connection application process and generator performance standard (GPS) modelling and studies for different jurisdictions.
- Assist in business development activities by presenting Merz power system capabilities to existing and prospective clients.

About you

At a minimum you will:

- Hold a Bachelor Degree in Electric Power Engineering subjects with a minimum of 8 years of experience in industry and/or university research.
- Demonstrate expertise in power system analysis.
- Hold membership or eligibility for membership of Engineers Australia.
- Demonstrate experience in using at least one of PowerFactory, PSS/E or PSCAD power system simulation software.
- Show proficiency in using automation tools such as Virtual Basic, Python or DlgSILENT Programming Language is desirable.
- Be familiar with Australia Standards and different Australia grid codes and technical rules.
- Have excellent report writing and communication skills.
- Be able to work and solve problems effectively and efficiently.
- Be either an Australia citizen, permanent resident or hold a valid working visa.

What's on offer?

Merz can offer you:

- Competitive salary.
- Professional development opportunities.
- Flexible work arrangements.

Please send your current resume, academic transcript along with the application letter to: careers@merzconsulting.com.au

Please include the following on your application:

- Salary expectations.
- Your visa, residency or citizenship status.

Learn more about us at www.merzconsulting.com.au.

Senior Power System Engineer

About the position

POSITION TITLE	Senior Power System Engineer
BUSINESS UNIT	Power System Modelling and Studies
PRIMARY RESPONSIBILITIES	<p>Your responsibilities will include but are not limited to:</p> <ul style="list-style-type: none"> • Understand the project scope of work, specifications, schedule, and all inter-disciplinary requirements. • Prepare estimates for bid proposals, including technical query reviews, execution statements, and discipline manhour estimates. • Participate in internal, customer, and third-party technical audits on power system modelling and studies. • Carry out and coordinate development of power system steady state, dynamic RMS and transient EMT models from designs, single line diagrams and equipment specification. • Perform and coordinate a range of power system studies including steady state, dynamic RMS and transient EMT studies. Implementation of automation in the power system modelling and studies. • Perform and coordinate the grid codes compliance review, generator connection studies and generator performance standard preparation. • Write project proposals and technical reports. • Assist in business development activities by presenting Merz power system capabilities to existing and prospective clients. • Mentor and coach junior power system engineers including necessary review and technical supports. • Provide power system support and advice to other teams. • Develop and deliver presentations to clients. • Demonstrate knowledge of industry codes and standards. • Administrative duties. • Apply an understanding of company policies and procedures. • Work to a high standard of quality and efficiency. • Work effectively and harmoniously with all Company and Client Personnel.

Key relationships

REPORTS TO	Manager Power System Modelling and Studies
WORKS WITH	Power System Modelling and Studies, Electrical Engineering, Strategic Consulting and Administration Teams
ROLES REPORTING TO THIS ONE:	NA
LEADERSHIP TEAM	Merz Management Team

Shared values

- Client service orientation
 - Teamwork and collaboration
 - Independent and employee owned
 - Professional excellence and open to challenge
 - Social responsibility, safe practices and environmental sustainability
 - Control risk taking and steady wealth creation
 - Openness, integrity and directness
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Key result area	Outcomes / accountabilities
SAFETY AND WELLNESS	<ul style="list-style-type: none"> Actively promotes and demonstrates behaviours consistent with Merz Shared Values. Safety on projects conducted from within the team. Supports the team to manage operational risk including OHS.
PRODUCTIVITY	<ul style="list-style-type: none"> Demonstrates commitment, shows initiative and is task-focused. Demonstrates the ability to deliver work remotely with minimal supervision.
STRATEGIC	<ul style="list-style-type: none"> Supports the team to implement actions from the Merz Business Practice Manual.
PEOPLE	<ul style="list-style-type: none"> Staff engagement. Sharing knowledge with the team.
CLIENTS	<ul style="list-style-type: none"> Contribute towards developing client relationships.
OPERATIONAL	<ul style="list-style-type: none"> Collaborates with team to support the management of operational risk, including project delivery, HSEC and quality.
FINANCIAL	<ul style="list-style-type: none"> Create deliverables in a time efficient manner. Ability to track and control cost of delivering works.

Other skills / requirements

TERTIARY / EDUCATION	<ul style="list-style-type: none"> Bachelor of Engineering (Electrical) is required. Master degree (Electric Power) is desirable.
KEY KNOWLEDGE / SKILLS	<ul style="list-style-type: none"> Knowledge of relevant Australian Standards. Power system analysis skills, ability to use power system knowledge to interpret simulation results. Excellent report writing skills. Experience writing documentation at the different stages of a project. Communication, organisation, and teamwork. Power System Software, including but not limited to: <ul style="list-style-type: none"> - DigSILENT PowerFactory, including DSL - PSS/E - PSCAD EMTDC - ETAP Power Station Programming languages, including but not limited to: <ul style="list-style-type: none"> - Python, DPL - Visual Basic Applications - Fortran - MATLAB programming Committed, self-motivated and able to operate with minimal supervision. Ability to self-manage projects and assist in meeting project timeframes. Excellent verbal and written communication skills in English.
AUTHORITIES / APPROVALS	NA
KEY PERFORMANCE INDICATORS	As guided through the Merz Business Practice Manual

Personal attributes

- | | |
|--|---|
| <ul style="list-style-type: none"> Conscientious, makes plans, dependable Curious, imaginative, many interests Seeks learning in every situation Resilience, emotional composure, self -management Sensitive, perceptive, tactful Ongoing wish to self-improve | <ul style="list-style-type: none"> Self-confident, achieving, able to lead Adaptable Ambitious Interpersonal sensitivity Enjoys social interaction Willingness to accept constructive feedback and advice |
|--|---|

Employment Application



Email the completed form to careers@merzconsulting.com.au together with your cover letter and CV.

POSITION

Name of position you are applying for

Date

How did you hear about this position?

PERSONAL DETAILS

Surname

Given name(s)

Preferred name

Date of birth

Citizenship

Work status

Visa status

Languages spoken

Address

City

State

Postcode

Email

Phone

QUALIFICATIONS & AFFILIATIONS

Qualification title

Institution/Training provider

Year completed

Are you currently undertaking study/training? Yes No

Course name

Full-time

Part-time

Distance

PREVIOUS EMPLOYMENT (MOST RECENT FIRST)

Employer name

Dates (from/to)

Position held

Employment Application Continued

REFERENCES

Do you agree to have referees contacted in relation to this application? **Yes**

Reference checks will be conducted legally in an ethical manner and all information derived will remain confidential.

Name	Phone	Working relationship (eg supervisor)
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OTHER INFORMATION

When will you be able to start work

Please provide any other information that you identify as being pertinent to this application

DECLARATION

I declare that to the best of my knowledge the information given is true and correct. I understand that inaccurate, misleading or untrue statements or knowingly withheld information may result in termination of employment with this organisation.

I understand that this application does not constitute an offer of employment. I understand that, in some cases, police and credit checks will be required and I will be notified if this applies to this application.

I consent to a professional CV-checking company being used to verify any information provided within my application.

Email the completed form to careers@merzconsulting.com.au together with your cover letter and CV.