

We are hiring!

Jan 2026

Job Description:

Modelling Consultant



Solid Green Consulting

JHB: 33 6th Street, Parkhurst
Johannesburg, 2193
CPT: Urban Hub,
40 Dorp Street, Cape Town

t: 011 447 2797

e: hello@solidgreen.co.za

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Job Title:

Modelling Consultant

 Location:

We are looking for one candidate, that will be based at our Joburg Office in Parkhurst

Department: Modelling and Simulation

Reports to: Head of Department: Modelling & Simulation

Position Type: Permanent (initial contract will include a 3-month probationary period)

Experience Level: +3 years in the Green Building Industry and preferably 3 years' experience in Green Building Modelling & Simulation



Application Deadline: 20 February 2026

To Apply:

- Send your **CV** to hello@solidgreen.co.za with the subject line "**Modelling Consultant.**"
- In your email, please include a brief motivation outlining what excites you about this role and your interest in joining the Solid Green team.



Salary: Remuneration will be commensurate with the candidate's level of education and relevant experience.

Company Overview

Solid Green Consulting is a dynamic, forward-thinking sustainability consultancy passionate about transforming the built environment. With a track record of over 215 certified projects across South Africa and beyond, our team offers industry-leading expertise in Green Star certification, energy modelling, and high-performance building consulting. We are recognized as pioneers in sustainable design and green building innovation throughout the continent.

Our Vision is ***"To lead the transformation of the built environment towards a future that is regenerative and resilient"***.

Company Culture

Our culture embodies our core values, aiming to foster an environment where individuals can find inspiration, motivation, and appreciation. We strive to be recognized as Industry Thought Leaders, serving as change agents who are passionate and dedicated, staying up-to-date with the latest trends, news, and certifications.

We prioritise:

- Flexible working environments, hours, and locations within reasonable parameters
- Open communication and active participation in company events
- Well-being and personal development, supported through resilience toolkits, coaching, and peer support
- Trust, respect, and commitment as foundations for collaboration
- Ethical, honest engagement and collective growth through knowledge-sharing

Commitment to a Resilient Workplace

Our Resilient Workplace Commitment supports emotional, mental, and systemic well-being across Solid Green. We lead by example and foster a work culture where personal and professional sustainability are valued. The programme includes:

- Psychological safety and open communication
- Trauma-informed and strengths-based leadership
- Flexible work arrangements
- Teamwide reflection and care practices

Position Summary

The Modelling Consultant is a technically focused role responsible for the delivery of high-quality energy and performance models on assigned projects. This position plays a critical role in translating sustainable design intent into robust, data-driven insights that support certification outcomes and client decision-making.

The Modelling Consultant works closely with Senior Modelling Consultants, sustainability consultants, and project teams to develop, analyse, and document performance models across a range of building typologies. This role is primarily delivery-oriented, with a strong emphasis on technical accuracy, collaboration, and continuous skills development.

A strong interest in sustainable design, building performance, and the practical application of modelling tools is essential.

Key Responsibilities

1. Performance Modelling & Project Delivery

- Develop and run building performance and energy models for assigned projects using approved simulation tools
- Assess thermal comfort, energy efficiency, and related performance metrics in line with project and certification requirements
- Interpret modelling outputs and contribute to practical, performance-driven recommendations
- Support project teams from early design through to construction and certification

2. Technical Documentation & Reporting

- Prepare clear, accurate modelling reports and supporting documentation for internal review and client submission
- Ensure modelling outputs align with Green Star, EDGE, LEED, Net Zero, and other applicable frameworks
- Maintain organised and auditable modelling files in line with company standards

3. Collaboration & Stakeholder Support

- Work collaboratively with sustainability consultants, senior modellers, and project teams
- Participate in client meetings as a technical contributor when required

- Interface with green building certification bodies under the guidance of senior staff

4. Support to Junior Staff

- Provide day-to-day technical guidance to Junior Modelling Consultants on assigned tasks
- Review junior work for accuracy and completeness before submission to senior staff
- Support skill development through knowledge-sharing and practical coaching

5. Research & Continuous Improvement

- Research emerging modelling tools, technologies, and high-performance building strategies
- Contribute ideas and insights to improve modelling workflows, templates, and internal tools
- Participate in internal knowledge-sharing and training initiatives

Skills and Capabilities

Technical & Analytical Skills

- Strong hands-on capability in building performance and energy modelling
- Solid understanding of building physics, thermal comfort, and energy efficiency principles
- Ability to develop, run, and analyse models using approved simulation tools
- Competence in translating modelling outputs into clear technical insights and recommendations
- Accurate, detail-oriented approach to data, assumptions, and documentation

Project Delivery & Organisation

- Ability to manage assigned modelling tasks across multiple projects and deadlines
- Strong time management and prioritisation skills
- Comfortable working within defined modelling standards, methodologies, and QA/QC processes
- Proactive in flagging risks, data gaps, or modelling constraints early

Collaboration & Communication

- Clear written and verbal communication skills
- Ability to work collaboratively with sustainability consultants, senior modellers, and project teams
- Confidence to contribute technical input in internal discussions and selected client meetings

- Openness to feedback and continuous learning

Learning & Professional Development

- Demonstrated curiosity and interest in sustainable building performance
- Willingness to learn new tools, methodologies, and certification requirements
- Actively working toward increased technical independence and senior capability
- Positive, solutions-oriented mindset

Minimum Requirements

Category	Minimum Requirement	Advantageous
Education	Bachelor's degree in a specialisation within the Built Environment	Mechanical Engineering Degree Master's Degree in specialisation within the Built Environment
Experience	+3 years in the Green Building Industry +3 years' experience in Green Building Modelling & Simulation	
Other	• Advanced proficiency of Green Building Tools • (Design Builder) • Understanding of building physics fundamentals & principles • Experience in modelling and simulation of interiors, existing buildings, new built, precincts, Net Zero • Advanced proficiency in Google Workspace (Docs, Sheets, Slides)	• Experience in providing solutions to non-traditional building challenges • Experience across new build, existing buildings, interiors, precincts, and/or Net Zero projects is advantageous

Final Notes

This job description reflects the current needs and vision of the Modelling and Simulation Department. As the department and organisation evolve, so may this role – providing opportunities to deepen leadership, shape team culture, and influence the trajectory of green building certifications in South Africa.

We invite applications from candidates who want to lead with both technical excellence and human-centred values, and who are excited to contribute to a resilient, regenerative, and collaborative work environment.