

We are hiring!

Jan 2026

Job Description:

Senior 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

w: www.solidgreen.co.za



Job Title:

Senior 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: +5 years in the Green Building Industry and preferably 5 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 "**Senior 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 Senior Modelling Consultant is a **technical leadership role** responsible for setting modelling standards, ensuring quality and consistency, and providing strategic technical direction across the Modelling & Simulation portfolio.

This role combines advanced modelling expertise with people leadership, quality assurance, and client advisory responsibilities. The Senior Modelling Consultant acts as the final technical authority on modelling methodologies and outputs, mentors modelling staff, and supports business development and innovation initiatives.

A strong systems-thinking mindset, deep technical capability, and the ability to translate complex modelling results into strategic insights are essential.

Key Responsibilities

1. Technical Leadership & Quality Assurance

- Take accountability for the technical quality, accuracy, and consistency of all modelling deliverables
- Define, maintain, and continuously improve modelling standards, methodologies, and QA/QC processes
- Review, approve, and sign off on modelling outputs, reports, and client submissions
- Act as the escalation point for complex or non-standard modelling challenges

2. Advanced Performance Modelling & Strategic Application

- Lead the development and review of advanced performance models across diverse building typologies
- Apply advanced building physics principles to complex sustainability challenges
- Interpret modelling results to provide high-level strategic advice to clients and project teams
- Ensure modelling outputs align with certification, regulatory, and client performance objectives

3. Client & Stakeholder Engagement

- Act as a trusted technical advisor in client meetings and external engagements
- Build and maintain strong relationships with certification bodies and industry stakeholders

- Support proposals, tenders, and business development through technical input and presentations

4. People Leadership & Development

- Lead, mentor, and develop Modelling Consultants and Junior Modelling Consultants
- Allocate work, review outputs, and provide structured technical and performance feedback
- Identify training needs and support career development planning
- Provide input into performance reviews, resourcing, and progression decisions

5. Strategy, Innovation & Continuous Improvement

- Drive innovation in modelling approaches, tools, workflows, and service offerings
- Lead internal discussions on emerging industry trends and technologies
- Contribute to company-wide technical strategy and operational improvement initiatives
- Support marketing, thought leadership, and knowledge-sharing activities

Accountability

1. Accountable for modelling quality and technical integrity across the department
2. Final decision-maker on modelling methodologies, assumptions, and deviations from standards
3. Responsible for identifying and mitigating technical risk within modelling projects

Skills and Capabilities

Advanced Technical Expertise

- Deep expertise in building physics, energy modelling, and performance simulation
- Ability to define modelling approaches, assumptions, and methodologies for complex projects
- Strong analytical judgement to assess, challenge, and validate modelling outputs
- Capacity to translate complex technical results into strategic, decision-ready insights

Technical Leadership & Quality Assurance

- Proven ability to set and uphold modelling standards and best practice

- Strong QA/QC capability with a high level of accountability for technical accuracy
- Confident decision-maker on modelling methodologies, deviations, and risk mitigation
- Ability to solve complex, non-standard modelling challenges

People Leadership & Mentorship

- Strong mentoring and coaching skills with a focus on technical and professional growth
- Ability to allocate work, review outputs, and provide structured, constructive feedback
- Experience supporting performance development and career progression
- Builds psychological safety and technical confidence within the team

Client & Stakeholder Engagement

- Trusted technical advisor to clients, project teams, and external stakeholders
- Strong presentation and communication skills at a senior professional level
- Ability to represent the company as a technical authority in external forums
- Supports business development through technical input and strategic engagement

Strategic Thinking & Innovation

- Systems-thinking approach to modelling, sustainability, and organisational improvement
- Ability to identify opportunities for innovation in tools, workflows, and service offerings
- Contributes to company-wide technical strategy and continuous improvement
- Balances technical excellence with commercial awareness and delivery realities

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	+5 years in the Green Building Industry +5 years' experience in Green Building Modelling & Simulation	

Other	• Advanced proficiency in green building and performance modelling tools (e.g. DesignBuilder) • Strong understanding of building physics and energy efficiency principles • Experience modelling a range of building types, including new build, existing buildings, interiors, precincts, and Net Zero projects • Advanced proficiency in Google Workspace (Docs, Sheets, Slides)	• Experience across new build, existing buildings, interiors, precincts, and/or Net Zero projects is advantageous • Experience in providing solutions to non-traditional building challenges • Demonstrated experience in mentoring and technical leadership
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Final Notes

This job description reflects the current needs and vision of the Technical 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.