



Solas Energy® Consulting is recruiting a **Renewable Energy Engineer** to join our Canadian team immediately. We are seeking someone with an entrepreneurial spirit, a love of learning, and a passion for sustainability. This position is ideal for someone with 3-5 years of professional experience, who enjoys technical problem-solving, renewable energy modelling, project development support, and translating complex technical information into clear advice for clients.

The successful candidate will support the development, engineering, permitting, and evaluation of utility-scale wind, solar, and battery energy storage projects (BESS). The role will combine renewable energy modelling, technical development support, site and constraints analysis, engineering review, due diligence review, regulatory and environmental technical support, and selected project-management responsibilities.

Candidates with experience in utility-scale solar or BESS modelling, renewable energy project development, permitting support, GIS-based constraints analysis, and technical due diligence are highly desirable. Experience with PVsyst, BESS performance modelling, ForgeSolar, QGIS or ArcGIS is particularly valuable. Familiarity with Canadian renewable energy development and regulatory processes, particularly in Alberta, Ontario, or British Columbia, is preferred. We are looking for candidates who bring hands-on industry experience. While academic achievements are valued, this role requires practical, real-world project exposure beyond graduate studies or summer placements.

The Engineer will also support selected ESG, GHG, life-cycle assessment, and other advisory work as required. Excellent communication, technical writing, analytical judgement, and attention to detail are essential.

At Solas Energy, clients trust us to deliver timely advice so they can make the best decisions possible for their projects. We have earned that trust by taking an innovative approach to our work, by efficiently and accurately identifying solutions for our clients' unique challenges, and by uncovering opportunities for strategic growth. We're looking for someone who values this approach and is seeking an opportunity to contribute to our net zero future.

Location: Flexible, though the successful candidate must be eligible to work in Canada. Candidates located in Alberta, British Columbia, or Ontario who are able to work remotely are preferred.

Hours: This is a full-time position of 40 hours per week. Working hours are flexible, with the expectation that the individual is generally available between 9am and 4pm Mountain Time. General hours of availability may be adjusted for candidates based in other time zones.

Compensation: To be determined based on experience. The anticipated salary range for this role is \$80,000-\$90,000 CAD. Solas Energy offers a flexible benefit plan including health insurance, flexible spending account, and RRSP matching contributions.

To apply, please send your cover letter and resume as one PDF document to careers@solasenergy.com.

Please use the subject line: [Renewable Energy Engineer Application](#).

In your cover letter, please include your preferred start date and working location.

Thank you for your interest in working with Solas Energy!

Applicants selected for an interview will be contacted as applications are received.

Renewable Energy Engineer

Purpose of Position

The Renewable Energy Engineer supports the development, engineering, permitting, and evaluation of utility-scale wind, solar, and battery energy storage projects (BESS) across North America.

The role provides technical execution support across renewable energy modelling, feasibility assessment, site and layout optimization, technical due diligence, regulatory and environmental inputs, and project development. The successful candidate will prepare and evaluate technical analyses, support project design and permitting decisions, and work closely with senior engineering, project-development, environmental, regulatory, GIS, and external specialist resources.

A key responsibility of the position is to develop strong, repeatable internal capability in solar and BESS modelling, technical project analysis, and the translation of regulatory, environmental, and stakeholder commitments into project design and construction requirements.

Primary Job Tasks and Responsibilities

- Develop and review solar energy models using PVsyst or similar tools, including energy-yield analysis, loss assumptions, DC/AC configuration, shading, clipping, availability, curtailment, equipment selection, and sensitivity analysis.
- Develop and support BESS performance analyses, including round-trip efficiency, degradation, augmentation, availability, operating profiles, dispatch assumptions, and project-specific performance sensitivities.
- Maintain clear model assumptions, input records, version control, quality checks, and reproducible modelling files to support internal review and future project handover.
- Deliver early-stage siting, site constraints analysis, project layout optimization, and land-use assessments for wind, solar, and BESS projects.
- Use GIS tools such as QGIS or ArcGIS to support project constraints analysis, mapping, site evaluation, environmental review, technical reporting, and preparation of inputs for regulatory and specialist studies.
- Prepare and review project design criteria, feasibility studies, technical memoranda, preliminary engineering packages, and development-stage technical reports.
- Analyze project performance data, site conditions, equipment specifications, consultant studies, and engineering information to validate design assumptions and identify material technical risks.
- Support technical due diligence assignments by reviewing engineering, energy yield, equipment, interconnection, construction, permitting, environmental, and operating information and summarizing key findings for internal and client review.
- Support renewable energy permitting and regulatory submissions by preparing technical inputs, reviewing engineering assumptions, coordinating technical information requests, and ensuring consistency between project design and regulatory documentation.
- Review environmental, permitting, land, and stakeholder commitments for technical implications and support the translation of those commitments into engineering, procurement, design, construction, monitoring, and reporting requirements.
- Review specialist environmental and impact-assessment studies to understand technical implications for project layout, equipment selection, setbacks, mitigation, construction methodology, and project schedule.
- Support glare, visual, shadow-flicker, noise, or related impact-assessment activities through data preparation, GIS analysis, model inputs, quality checks, and review of specialist outputs. Experience with ForgeSolar or similar tools is considered an asset.
- Participate in project site visits, field investigations, construction observations, compliance reviews, and technical inspections as required to validate project assumptions and support design, permitting, due diligence, or construction activities.

- Support the development of capital and operating cost estimates and budgets for wind, solar, and BESS projects, including preparation of inputs for asset management planning and project economic models.
- Support interconnection and electrical technical review by compiling project data, reviewing utility requirements, evaluating equipment information, and assisting senior technical staff with interpretation of studies and project implications.
- Manage scope, budget, schedule, risks, actions, and deliverables for designated technical workstreams and smaller client assignments.
- Coordinate effectively with senior engineers, project leads, environmental and regulatory specialists, GIS staff, consultants, developers, EPC contractors, OEMs, and clients.
- Generate clear technical reports, memoranda, modelling summaries, feasibility assessments, presentations, and client-ready recommendations.
- Contribute to the development and maintenance of technical procedures, modelling standards, quality-control tools, templates, and internal knowledge-management systems.
- Support ESG screening, greenhouse-gas quantification, life-cycle assessment, circular-economy analysis, climate-risk assessment, and related advisory assignments as required.
- Work within Solas Energy processes, quality standards, and project-governance requirements to ensure accurate, consistent, and high-quality client deliverables.

Authorities

- This position does not include signing authority
- Engineering work requiring professional judgement, authentication, or formal technical approval will be completed under the review and supervision of an appropriately qualified Professional Engineer.

Qualifications

Knowledge and Technical Skills:

- Bachelor's degree in Engineering.
- Three to five years of relevant professional experience working in renewable energy engineering, energy modelling, project development, technical consulting, project delivery, or a related field.
- Demonstrated experience with utility-scale solar, wind, and/or battery energy storage projects.
- Practical experience developing or reviewing solar energy models is an asset.
- Experience with BESS performance modelling, energy-storage analysis, degradation, augmentation, efficiency, or operating assumptions is strongly preferred.
- Strong modelling, quantitative analysis, analytical problem-solving, and data-validation skills.
- Experience with GIS software such as QGIS or ArcGIS is strongly preferred.
- Experience with glare analysis, visual-impact assessment, shadow flicker, or other renewable-project impact-assessment tools is an asset.
- Proven ability to prepare high quality technical reports, proposals and presentation development
- Strong understanding of model documentation, quality assurance, version control, assumption management, and technical file organization.
- Experience with technical due diligence, feasibility reports, engineering reviews, or project-development risk assessment is an asset.
- Strong computer skills, including advanced Excel and experience with statistical, graphical, modelling, GIS, or engineering software packages. Programming skills are considered an asset.
- Project-management experience, including scope development, budgeting, scheduling, action tracking, and management of multiple concurrent workstreams.
- Familiarity with Canadian renewable energy development and regulatory processes, particularly in Alberta, Ontario, or British Columbia, is preferred.

Interpersonal Skills:

- Demonstrated ability to work effectively in a professional consulting environment with evolving priorities, multiple deliverables, and strict deadlines.
- Strong client-facing communication skills, including preparing polished deliverables, participating in client meetings, and explaining technical concepts to non-technical audiences.
- Ability to take abstract or undefined scopes of work and develop clear, structured, and defensible work plans demonstrating curiosity and analytical skills.
- Strong curiosity and analytical judgement, with a demonstrated ability to identify assumptions, data gaps, inconsistencies, and project risks.
- Strong self-management through planning, organization, and problem-solving, with the ability to work independently while recognizing when senior technical or specialist input is required.
- Excellent written and verbal communication skills, including technical report writing, modelling documentation, presentations, and concise issue summaries.
- Client-focused ability to understand and translate client needs.
- Shows strong empathy in supporting a broad range of stakeholders including team members and client, fostering trust and building collaborative working relationships.
- Comfortable working in a fully remote or hybrid consulting environment, collaborating with distributed teams and clients across different provinces and time zones.
- Willingness to travel to project sites and client meetings as required.

Reporting Relationships

- Position will report to the Vice-President Renewable Energy
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