



Resource Efficiency Engineer Job Description

About Resource Innovation Institute

Resource Innovation Institute is a non-profit organization committed to cultivating a better future for all of humanity. We measure, verify & celebrate the world's most efficient agricultural ideas so growers can reap resilient harvests for the next hundred years. To take on the challenges of our changing world, we believe that food, medicine and other vital crops demand data-driven insights, shared with integrity. We are seeking a Resource Efficiency Engineer to support producers with benchmarking services, education, and training. This candidate will help us reach more growers with competitive insights for their greenhouses and indoor farms. This foundational work will deepen the impact of our organization as we cultivate a better future for all of humanity.

Founded in 2016 to advise governments, utilities and industry leaders on the resource impacts of cannabis cultivation, an under-studied and resource-intensive market, we have since extended our research to other sectors in partnership with the US Department of Agriculture. We believe in making immediate impact that is deliberate by design. We are an agile startup with a diverse team with many women in leadership and fulfilling technical responsibilities.

Our consortium of members brings perspectives from across the field—uniting architects and engineers, growers and operators, researchers and analysts. By nurturing connections in our complex and dynamic industry, we can build deeply restorative systems for people and planet.

RII is funded by utilities, foundations, governments, cultivators, and leading members of the supply chain serving controlled environment agriculture (CEA). RII's Board of Directors includes the American Council for an Energy Efficient Economy (ACEEE) and a former board member of the US Green Building Council.

RII believes all issues are intersectional. Climate change can not be addressed unless and until true racial equality prevails. We therefore seek a virtual work environment where our employees and those we hire for project work are aligned with these beliefs and considered for their competence, not necessarily their education or experience.

Application Details

Submit an application consisting of both a cover letter and a resume including a link to your LinkedIn profile. As part of the interview process, candidates will be asked to complete a pre-hire assessment. **Applicants who do not submit a cover letter will not be considered.**

Required Qualifications

- 1 to 3 years of experience analyzing and visualizing data for buildings, energy, water, or emissions like greenhouse gases, solid waste, and wastewater
- Technical Bachelor's degree in a quantitative field like engineering, computer, environmental, or data science preferred, but all applicants considered based on education, experience and demonstrated skills
- Willingness to learn new technical systems
- Expertise in building and deploying datasets for market intelligence

Preferred Qualifications

- Connections to networks of CEA producers like greenhouse growers, cannabis farmers, and indoor cultivation facility operators
- Background in cultivation as a grower yourself, or previous work experience in greenhouses or indoor farms
- Curiosity to deliver creative and detailed solutions to problems and improve processes
- Ability to receive business requirements and self-direct to understand scopes of work, determine next steps, and escalate issues appropriately
- Understanding of cultivation software systems (such as Artemis, eGro, Priva)
- Experience using energy and water benchmarking solutions and software like Energy Star Portfolio Manager, Measurabl, the Zero Tool
- 2+ years experience in data management for research or commercial applications
- Familiarity with extracting data from databases and integrating software platforms using API
- Experience writing spreadsheet functions for automating data analysis
- Effective project manager and technical writer with great organizational, interpersonal, and communication skills
- Community-minded spirit of growing RII partnerships

Job Description

The Resource Efficiency Engineer reports to the Technical & Operations Director (TOD) of RII. This position will be responsible for delivering Producer Services via Benchmarking Services, Producer Engagement, and Curriculum Support:

Benchmarking Services

- Deliver resource benchmarking insights to cultivation facility operators via Performance Snapshots, Producer Resource Efficiency Plans, and Case Studies
- Collaborate with members of RII's Engineering team to prioritize and execute producer benchmarking activities
- Understand and communicate PowerScore terminology to producers (<https://powerscore.resourceinnovation.org/powerscore-glossary>)
- Use the PowerScore resource benchmarking platform to gather data from producers and their greenhouse and indoor vertical farm facilities growing food, floriculture, and cannabis crops
- Share competitive insights by creating Performance Snapshots using facility information, resource consumption, canopy area, and production data
- Generate reports for compliance with government regulations affecting cultivators (Massachusetts; Mendocino County, California)
- Enable businesses to get facilities certified for environmental excellence
- Analyze year-over-year trends in key performance indicators (KPIs)
- Update crop-specific Ranked Data Sets with new facility records
- Verify KPIs using system-reported data like utility bills and energy monitoring reports
- Prepare Producer Resource Efficiency Plans (PREPs) for portfolios of CEA facilities
- Produce case studies for greenhouses and indoor farms to celebrate excellent KPI performance and benefits of efficiency
- Build portfolios for PowerScore Pro users to create baselines for the CEA industry
- Provide on-call technical support for PowerScore, field emails from users with guidance from TOD
- Test new PowerScore functionality, report identified issues to TOD, confirm resolution of issues
- Support TOD with producer consulting scopes of work like design reviews as needed

Producer Engagement

- Recruit new CEA producer partners to participate in benchmarking initiatives
- Develop RII producer membership
- Generate new producer consulting leads
- Support RII members with engaging producers
- Represent RII at producer events and conferences

Curriculum Support

- Promote efficiency for producer audiences via curriculum & training (catalog.resourceinnovation.org)
- Build out RII course catalog to represent producer interests and educational needs
- Develop virtual classroom content with RII Engineering team (record Tip Clips)
- Integrate insights from PowerScore into RII resources

Work Schedule & Environment

- Starts as soon as 3/15/22
- Full time, 40 hours per week
- \$70,000 - \$80,000 salary
- Remote position; work from home
- Collaborate via digital platforms with supervisor in Portland, Oregon and team members in Burlington, Vermont and Denver, Colorado
- Use of software platforms including Slack, Asana, Grammarly & others is expected

Equal Opportunity Statement

Our goal to be an accessible, diverse, and intersectional organization representing the industry we serve is only accomplished with an inclusive workforce. We are an Equal Opportunity Employer and committed to excellence through diversity. RII does not discriminate on the basis of race, color, sex, gender identity, sexual orientation, gender, religion, national origin, disability, age, veteran status. We welcome and encourage applications from people who belong to underrepresented and/or marginalized groups.

RII values the individual and social differences that every person brings to the table. We believe this makes our team stronger and more agile.