



RNG Process Engineer, Gas Upgrading – Burnham RNG

Burnham RNG (<http://www.burnhamrng.com>) Burnham is a wastewater to RNG provider that helps businesses and municipalities profitably reduce treatment & disposal costs, improve environmental outcomes and re-use energy, water, and nutrients. The company is focused on efforts to turn waste into valuable resources. Burnham manages and reuses organic waste and wastewater by transforming it into renewable natural gas, clean water, and high-value soil additives that enhance sustainability and profitability.

The company builds/acquires, owns, and operates renewable natural gas (RNG) producing facilities with the mission to build tomorrow's resource recovery infrastructure today. By marketing and selling RNG and capturing associated tax benefits, the company can significantly reduce the cost of wastewater treatment and disposal for communities while improving environmental outcomes.

To accomplish our mission, we are looking to build and grow a cohesive team in an execution-oriented culture. We have created the following cultural markers and strive to hire like-minded people to help fuel our growth.

We are HUMBLE...we take pride in the quality of our work, but recognize it can always be improved with the input of others.

We are DISCIPLINED...we strive for systemic, disciplined, consistent execution in everything we do.

We are ANALYTICAL... we need team members who come to conclusions using logic, data and math.

We are ENTHUSIASTIC...we care deeply about the outcomes of our work.

We are PROBLEM SOLVERS...we don't have all the answers. We need team members to take the initiative to figure it out.

We are FUN...we love what we do and love coming to work each day.

We are seeking an **RNG Process Engineer, Gas Upgrading**. This position requires an individual who embodies Burnham values while carrying out the role of subject matter expert related to Burnham's RNG-related systems and processes, including design, start-up, operations, and optimization. This role requires an individual who is detail-oriented, a systematic thinker, a technical contributor and leader, a collaborator, and willing and able to solve difficult problems. This role will be a key collaborator with internal Origination & Development, Engineering, Project Management, and Operations; external partners such as EPC contractors, vendors, suppliers, and partners in gas upgrading, processing, and distribution, regulatory agencies and local authorities, research organizations and more.

This position is based in our Raleigh, NC office with travel across the U.S. to project sites and plants. If needed, relocation support is available. Relocation can be timed for the summer of 2025 to allow for school year completion by dependents; additional flexibility on timing may be explored.

**In this position, you will...**

- Be the Subject Matter Expert (SME) for Gas Upgrading Technologies, and for Biogas and RNG (Biomethane) Process Units, including:
- Biogas polishing, separation and compression, such as membrane separation, PSA, scrubbing technologies
- Technologies for removal of moisture, impurities and contaminants such as nitrogen, oxygen, H₂S, siloxanes.
- Natural Gas Pipeline specifications for Natural Gas and RNG.
- RNG Interconnection systems – design, operation, maintenance
- Flare systems and emission management
- Utilization of off-gas stream (such as CO₂) – liquefaction, upgrading, delivery
- Provide immediate and effective support to Burnham's Operations teams in improving Gas Upgraders performance, in trouble shooting, outages, start-ups etc.
- Prepare and oversee preparation of: process deliverables of the Gas Upgrading Unit and associated systems - Develops and/or checks overall plant and unit simulations using standard process simulation programs;
- Lead major design and risk review sessions, e.g. HAZOP, PDR, CDR, 3D Model Review.
- Assumes the responsibility to lead technical discussions with third parties (contractors, partners, solution providers, regulators, suppliers.
- Support commissioning of process equipment and training of customer personnel
- Engage in other duties as assigned by leadership.
- Travel as required by Burnham to plants, customers/partners, etc. for in person meetings, trouble shooting, field tests, etc.

In this position, you will gain...

- Opportunity to join a fast-paced, high-growth start up and be a key member of a team growing and building a business.
- The ability to help create and evolve critical gas processing systems and processes used by Burnham today and in the future to optimize resource recovery for renewable energy sale and distribution
- Opportunity to be a part of a company culture that is disciplined and execution-oriented, but also fun; we take time to celebrate our wins.
- The chance to serve with team members locally and across the U.S. who are helping deliver sustainable solutions that support renewable energy and lessen environmental impact.

This position is well-suited for you if you:

- Enjoy digging into tough problems, finding the root cause and rapidly identifying and implementing short term and long-term solutions
- Feel confident working with other groups within and outside the organization to aggressively provide solution sets
- Exhibit excellent knowledge of technical theory, engineering principles, good engineering practices and how to apply them in design execution.
- Display thorough understanding of engineering principles of heat transfer, mass transfer and thermodynamics, and their general application to process design.



- Are familiar with major regulations and industry codes and standards affecting standard design, quality or processes.

In this position, we will need you to have....

- MSc or BSc in Chemical or Mechanical Engineering from an accredited university or college (or international equivalent)
- A minimum of 7 years (total) of relevant experience including:
 - at least 3 years in a process engineering role AND
 - at least 5 years' combined experience in design, construction and operation of combustible gas processing or upgrading facilities.
- Demonstrate knowledge and understanding of combustible gas (such as natural gas) specifications, testing, gas compression, liquefaction, delivery.
- Willingness and ability to travel 30-40% of the time over the course of the year to project sites and plants for feasibility and development meetings, plant start-up, operational reviews, company meetings, and industry events. Most trips are 5 days or less. Start-up may require a trip for up to 2 weeks.

Interested applicants should submit a resume to: christina@burnhamrng.com.

Burnham is dedicated to the principles of equal employment opportunity (EEO) in any term, condition or privilege of employment. Burnham does not discriminate against applicants or employees on the basis of race, color, creed, religion, sex, national origin, age, physical or mental disability, ancestry, marital status, sexual orientation, gender identity or expression, veteran status, uniform service member, genetic information or any other status protected by law. Burnham complies with applicable state and local laws governing nondiscrimination in employment in every location in which we operate.