

Employer: **Terrabon, Inc.**  
Title: **Plant Engineer**  
Categories: Manufacturing and Design  
Bio-energy/bio-fuels  
Engineering  
Travel Required: Occasional (exception is travel 2+ times per month to Houston, Texas)  
Job Type: Full Time  
Required Degree: B.S. Chemical Engineering  
Experience Required: 5 years.  
Location: Bryan, Texas  
Compensation: Competitive Salary plus benefits  
Job Description: Terrabon is searching for a design- and operation-oriented engineer to assist in the development of its renewable biofuel technology to meet Terrabon's strategic objectives. This engineer will develop and implement Terrabon technologies in the area of conversion of biomass-derived chemicals into other useful biochemicals and biofuels. This position reports to the Demonstration Plant Manager and Senior Research Specialist at the Bryan Demonstration Facility but will often get direction from senior company engineers depending on work assignment. The responsibilities for this position are installation and troubleshooting of equipment for converting intermediate chemicals into transportation fuels such as gasoline, jet fuel, and diesel. In addition, instrumentation and electrical support for the entire facility is expected from this position, as well as assistance in implementing the laboratory information management system and implementation of a SCADA system. The Demonstration Facility serves dual roles, meeting contractual production targets and generating data for scale-up to larger systems. This position will be involved in both, but will be tasked with collecting, maintaining and organizing the data in an easily accessible state.

**Duties and Responsibilities:**

- Act and perform work in a professional and safe manner that reflects positively on the company and the engineering profession;
- Perform design calculations, select equipment options, track cost and maintain schedule objective for several simultaneous projects;
- Perform material balances around process units. Organize laboratory data and learn the laboratory information management software.
- Actively participate in creating, documenting and implementing innovative chemical conversion technologies to further enhance the company's intellectual property;
- Participate in design, construction and installation of pilot plant equipment for optimization of processes and products developed by

Terrabon. This may include occasional manufacturing shift work as needed for production runs for prospective customers;

- Interact with industrial equipment vendors to select the most cost-effective and appropriate process equipment for projects;
- Maintain plant P&IDs.
- Develop and maintain operating procedures, maintenance records, etc.

### **Qualifications**

#### **Required:**

- B. S. degree in Chemical Engineering. No exceptions;
- Experience with troubleshooting and solving electrical, electronic and equipment-related problems;
- Proficient with Microsoft Excel, Word and Visio and database software; and
- Must be able to lift or move objects up to 50 pounds on an infrequent basis.

#### **Helpful but not required:**

- Experience with AutoCAD or other graphic design programs;
- Knowledge of heat exchanger design and programs;
- Some knowledge of pressure vessel design and concepts; and
- Some knowledge of pump and compressor codes and design.
- Knowledge of process simulation software, Unisim, Hysys or Aspen.

#### **Additional company expectations of applicant:**

In addition to the above qualifications, the ideal candidate should possess the following skills and aptitudes:

- Be willing to accept increasing responsibility and demonstrate initiative in self-development;
- High level of organization in work style;
- Ability to work well in a collaborative environment with plant technicians, laboratory personnel and other engineers;
- Willing to work hands-on in some projects;
- Positive professional attitude with optimistic, positive outlook on projects; and
- Excellent communication skills, both written and oral.