



205 Commercial Drive  
St. Augustine, FL 32092  
Tel.: 904.579.3217

## **Job Description PSP-CHP Service Technician/Commissioning Engineer**

**Job Title: Service Technician**

**Reports to: Service Manager**

### **Summary / Purpose of Job:**

2G Energy, Inc. is a wholly owned subsidiary of 2G AG. 2G is a world leader in CHP (combined heat & power) systems. We are not an engine/generator packager; we are a manufacturer of world class CHP systems. 2G is also a natural gas engine manufacturer. 2G offers a very comprehensive product range from 50kW to >2MW for the North, Central, and South American markets.

This position requires a diverse skill-set and a willingness to learn and grow. Daily duties include the troubleshooting and repair of EPG (electrical power generation) systems, CHP systems, as well as all related components such as paralleling gear, relays, protective devices and controls. The engineer (SE) needs to be analytical, and possess the skills to diagnose possible malfunctions remotely. SE assists customers and other technicians in the field via phone, email, or text. SE provides sound advice and guidance or steps to quickly remedy or further diagnose issues. Travel to jobsite locations throughout North and South America is a requirement of the SE. SE performs preventive maintenance, plus mechanical and electrical repairs on gas fueled engines as well as ancillary equipment. SE may be involved in engine overhauls, electrical and mechanical testing, as well as calibrating various equipment. The SE is frequently required to work with electrical schematics and wiring diagrams. SE must be able to collaborate very closely with colleagues in the factory, system engineers, trouble shooting specialists, and various administrative personnel to insure improvement of the product, timely invoicing, and resolution of problems. The employee is offered development training at OEM schools to provide the best possible support of each 2G system sold.

### **Main Duties and Responsibilities:**

- Performing technical advisory duties on the phone, assisting system operators and regional primary level field service technicians.
- Monitoring system performance via remote control on-line, diagnoses technical malfunctions / operator errors, and provides solutions.
- Answers telephone calls from system operators and field technicians, and provides technical guidance.
- Direct critical cases that are difficult to solve to appropriate specialized personnel when necessary, as well as respond to questions (both verbal and written) and facilitate responses on complex technical issues; follow up with management to ensure requests are carried out and action is coordinated.

- Regularly travel to jobsite locations to perform preventive maintenance, corrective maintenance, unscheduled service, and troubleshooting, mechanical & electrical repairs on natural gas and biogas engines, generator sets, and CHP power generation equipment.
- Involvement in engine overhauls, electrical & mechanical testing and calibration.
- Regularly improve and update product knowledge by participating in educational and product training opportunities.
- Update technical records, and compile service & maintenance reports.
- Maintain designated project & service record folders, and practice good record keeping.
- Contribute to a pleasant and positive work atmosphere where all team members feel important and responsible.
- Adapt to the diverse needs of a small team and address internal and external requirements with flexibility and creativity.
- Perform other such tasks as needed and as requested by management.
- *This description contains information necessary to describe and evaluate the job. It should not be construed as a detailed description of all work performed, but indicates the kinds of duties and skills expected.*

### **Non-Essential Duties and Responsibilities:**

- Assists the Company in any necessary duties to achieve Company goals.
- Performs other related duties as assigned.
- Limited supervision. Work is performed to a large extent on own responsibility after assignment, with some choice of method. Employee is allowed to develop own method within reason.
- Mistakes and errors in judgment are expensive to correct and therefore they must be avoided.
- This position involves regular work with confidential information of major importance, which if disclosed may be detrimental to the company's interests.
- Purchases or informs management of needed supplies or equipment necessary for overall performance, usually as directed.

### **Skills Required:**

- The candidate must have a strong reciprocating engine and electrical background with the ability to display a high level of skill and understanding regarding internal combustion engines, generator sets, ideally natural gas engines, but will consider applicants that have experience with diesel standby or other EPG engine technologies (e.g. compression engines).
- Will also consider technicians that have a more holistic background and excellent experience and track record in the area of complex technologies like aircraft engines and turbines.
- Be able to complete technical start-up of gas engines and CHP power systems.
- Independently diagnose and repair power systems.
- Basic working knowledge of advanced controls, safety shut-downs, circuit breakers and control panel wiring.

- Must be available to work over-time and occasionally travel on weekends.
- Must be able and willing to travel.
- Must be able to work independently.
- Excellent written and verbal communication skills and demonstrated proficiency composing written communications.
- Outstanding interpersonal skills.
- Excellent telephone skills and computer knowledge.
- High energy level, comfortable performing multifaceted projects in conjunction with day-to-day activities.
- Resourceful, well organized, highly dependable, efficient and detail oriented.
- Must present a positive, professional, and team player attitude.
- Must be flexible and able to adapt to change quickly.
- Must possess a valid driver's license with less than one (1) moving violation in the past three years.
- Must possess or be able to attain a passport
- German language skills would be a great advantage, but are not absolutely required.
- Experience and knowledge of IP Networking including troubleshooting.

### **Education & Experience:**

- High School Diploma or GED as a minimum.
- Formal training in reference to engines, complex mechanical & electrical systems.
- Preferable a person with some practical training / education (e.g. apprentice program, etc.) Technical Degree or Certification (e.g. trade school or EGSA) a plus.
- Minimum of four years' experience in this or a related industry.
- The candidate would normally have attained the required skills and knowledge through completion of adequate coursework / training, combined with related practical experience.
- Microsoft Office software proficiency.
- Able to read and understand P&ID, Electrical Schematics, and Equipment Mechanical Drawings.

### **Physical Requirements of the Position:**

- Medium work: Exerting up to 50 pounds of force occasionally, and/or up to 30 pounds of force frequently, and/or up to 5 pounds of force constantly to move objects.
- In an 8-hour day the employee must communicate with various customers, partners, colleagues, factory personnel, and must be able to constantly adapt his/her communication style to suit different cultures.

- Able to work long hours safely, up to 12 hours.

### **Vision Requirements of the Position:**

- Vision requirement equal to that for machine operators, mechanics, and skilled trades people whose work deals with machines such as lathes, drill presses, power saws and mills where the seeing job is at or within arm's reach.

### **Conclusion:**

A review of this description has separated the marginal functions of the position that are incidental to the performance of fundamental job duties. All main duties and requirements are essential job functions. All job requirements are subject to possible modification by the Company as deemed necessary. This job description in no way states or implies that these are the only duties to be performed by the employee occupying this position. Employees will be required to follow any other job-related instructions and to perform any other job-related duties requested by their supervisor.

### **A few Words about us:**

The 2G Group is the world's leading manufacturer of modular, intelligently designed CHP (combined heat & power) power generation systems for biogas and other gaseous fuels. We combine industry expertise with innovative technology to deliver clean energy power systems to a wide range of markets. 2G Energy AG is listed at the Frankfurt Stock Exchange, and the company develops, manufactures, and installs innovative clean energy conversion systems, solutions for energy efficiency, and renewable energy technologies for customers worldwide.

2G works on things that matter, "*Clean energy and smart power generation solutions*". The best people and the best technologies made 2G the manufacturer of choice for thousands of satisfied customers. Through its subsidiaries 2G Energy, Inc. the group is now expanding in America. Wonderful historic St. Augustine, FL was chosen as the new location for 2G's first manufacturing plant in the United States.

It's really the people that make 2G the kind of company it is. We hire people who are smart and determined, and we favor ability over experience. For us it's not really important whether somebody has 25 or 30 years of experience. Instead we focus on potential, talent, the capability to develop, and flexibility. We provide a professional, modern, and very vibrant working environment with the possibility for advancement and long-term career opportunities. Our organization is characterized by a dynamic team of youthful professionals, and the company is dominated by an overriding mentality of real doers, and energetic young people who understand that, and we all share a common goal and visions for the company.

Although 2G has an incredible successful history of more than 20 years, we strive to maintain the open culture often associated with startups, in which everyone is a hands-on contributor and feels comfortable sharing ideas and opinions. Our management environment is designed to encourage interactions across teams, and to spark conversation about ideas and improvements. We appreciate and encourage an open fast-paced vibrant culture. This fosters new perspectives, innovative thinking and creative solutions. This is a true asset for our business. Unlike most other organizations, we don't foster inflexible, slow, and hierarchical structures, and our customers don't hear comments like "*I have to ask my supervisor*". Empowering our associates is important, and we view "excellence & perfection" as a permanent goal to be embraced by everyone in our organization. There is always room for improvement, and we are constantly working towards the highest level of customer satisfaction.

If work and a job is just a way for you to make a decent paycheck, providing a good living for you and your family, and the actual work is a secondary consideration, *in that case 2G is probably not the right company for you.* There are some jobs that should mean more than that. Of course we all look forward to the direct deposit of our paycheck, but working for 2G means a little more to us and it really should to anyone else who chooses to apply for a job within our organization.

Being a 2G associate means a little more than punching a time-clock or cashing a paycheck. We all accept the fact that our salaries and wages are paid by our customers, not by the company. Only customers that are delighted with 2G make us more successful. If you have the skills and basic qualifications we are seeking, and you can identify yourself with our corporate culture, and most importantly you feel predestined to work in a vibrant working environment characterized by a dynamic team of energetic young people, we would like to hear from you.

**2G Energy Inc. Service**

205 Commercial Drive

Saint Augustine, FL 32092 USA

904-579-3217

**Please send your CV / Resume  
electronically by e-mail to:**

**[t.dawson@2-g.com](mailto:t.dawson@2-g.com)**