



B&K INSTALLATIONS, INC.

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## Welders, Cutters, and Welder Fitters

### About B&K Installations, Inc.

B&K Installations has more than 35 years of experience in the manufacturing of cultivation and grow facilities for the horticulture, agriculture, and aquaculture industries, as well as metal products that are used in various industries. We pride ourselves on manufacturing reliable commercial structures and machined and fabricated products. All products are constructed to withstand extreme weather conditions and rigorous everyday use. Our state of the art manufacturing facility allows us to specialize in customization of structures and products that are specifically made to meet our customers' needs and budget.

B&K prides itself on the fact that we are a family owned company and we treat our employees as such. Our company would not be what it is today without the total cooperation of all our team members. Our facility is a full fledged manufacturing operation so the dress code is causal and must meet OSHA requirements (close toed shoes, safety glasses, ear plugs). B&K is a great company to work for because of the diversity of jobs that we handle, it is always a learning experience.

Working for B&K is a great way to gain experience in working with multiple different industries and organizations. B&K deals with a multitude of different agencies such as FDOT and the University of Florida, thus we support our team members furthering their education to get the needed certification to work on more intricate jobs with agencies such as these. The size of our facility and the scope of our work allows for speedy career progression.

### Role of Welders, Cutters, and Welder Fitters

- **Job title:** Welder
- **Position in the Company:** Production Associate
- **Principal Responsibilities:**
  - Align parts or workpieces to ensure proper assembly.
  - **Analyze engineering drawings, blueprints, specifications, sketches, work orders, and material safety data sheets to plan layout, assembly, and welding operations.**
  - Assemble metal or plastic parts or products.
  - Assemble metal structures.
  - Assemble temporary equipment or structures.
  - Check grooves, angles, or gap allowances, using micrometers, calipers, and precision measuring instruments.





- Chip or grind off excess weld, slag, or spatter, using hand scrapers or power chippers, portable grinders, or arc-cutting equipment.
- Clamp, hold, tack-weld, heat-bend, grind or bolt component parts to obtain required configurations and positions for welding.
- Clean or degrease parts, using wire brushes, portable grinders, or chemical baths.
- Clean production equipment.
- Clean workpieces or finished products.
- Connect and turn regulator valves to activate and adjust gas flow and pressure so that desired flames are obtained.
- Cut, contour, and bevel metal plates and structural shapes to dimensions as specified by blueprints, layouts, work orders, and templates, using powered saws, hand shears, or chipping knives.
- Design templates or patterns.
- Detect faulty operation of equipment or defective materials and notify supervisors.
- Determine metal or plastic production methods.
- Determine required equipment and welding methods, applying knowledge of metallurgy, geometry, and welding techniques.
- Develop templates and models for welding projects, using mathematical calculations based on blueprint information. **Not a requirement but a definite asset if applicable.**
- Disassemble equipment for maintenance or repair.
- Dismantle metal assemblies or cut scrap metal, using thermal-cutting equipment such as flame-cutting torches or plasma-arc equipment.
- Drill holes in parts, equipment, or materials.
- Estimate material requirements for production.
- Examine workpieces for defects and measure workpieces with straightedges or templates to ensure conformance with specifications.
- Fill cracks, imperfections, or holes in products or workpieces.
- Fill holes, and increase the size of metal parts.
- Gouge metals, using the air-arc gouging process.
- Guide and direct flames or electrodes on or across workpieces to straighten, bend, melt, or build up metal.
- Hammer out bulges or bends in metal workpieces.
- Heat material or workpieces to prepare for or complete production.
- Ignite torches or start power supplies and strike arcs by touching electrodes to metals being welded, completing electrical circuits.



- Join parts such as beams and steel reinforcing rods in buildings, bridges, and highways, bolting and riveting as necessary.
- Lay out, position, align, and secure parts and assemblies prior to assembly, using straightedges, combination squares, calipers, and rulers.
- Mark products, workpieces, or equipment with identifying information such as proper job number, piece marks, and other identifying marks as required.
- **Measure dimensions of completed products or workpieces to verify conformance to specifications.**
- Melt lead bars, wire, or scrap to add lead to joints or to extrude melted scrap into reusable form.
- Melt metal, plastic, or other materials to prepare for production.
- Mix and apply protective coatings to products.
- Monitor equipment operation to ensure that products are not flawed.
- Monitor the fitting, burning, and welding processes to avoid overheating of parts or warping, shrinking, distortion, or expansion of material.
- Mount materials or workpieces onto production equipment.
- Notify others of equipment repair or maintenance needs.
- Operate brazing and soldering equipment.
- Operate grinding equipment.
- Operate manual or semi-automatic welding equipment to fuse metal segments, using processes such as gas tungsten arc, gas metal arc, flux-cored arc, plasma arc, shielded metal arc, resistance welding, and submerged arc welding.
- Operate metal or plastic forming equipment.
- Operate metal shaping, straightening, and bending machines, such as brakes and shears.
- Operate welding and safety equipment and use safe work habits.
- Position and secure workpieces, using hoists, cranes, wire, and banding machines or hand tools.
- Preheat workpieces prior to welding or bending, using torches or heating furnaces.
- Prepare all material surfaces to be welded, ensuring that there is no loose or thick scale, slag, rust, moisture, grease, or other foreign matter.
- Recognize, set up, and operate hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment.



- Remove rough spots from workpieces, using portable grinders, hand files, or scrapers.
- Repair parts or assemblies.
- Repair products by dismantling, straightening, reshaping, and reassembling parts, using cutting torches, straightening presses, and hand tools.
- Reshape metal workpieces to established specifications.
- **Review blueprints or other instructions to determine operational methods or sequences.**
- Select and install torches, torch tips, filler rods, and flux, according to welding chart specifications or types and thicknesses of metals.
- Select production equipment according to product specifications.
- Shape metal workpieces with hammers or other small hand tools.
- Signal others to coordinate work activities.
- Smooth metal surfaces or edges.
- Solder parts or workpieces.
- Trim excess material from workpieces.
- Use fire suppression methods in industrial emergencies.
- Watch operating equipment to detect malfunctions.
- Weld components in flat, vertical, or overhead positions.
- Weld separately or in combination, using aluminum, stainless steel, cast iron, and other alloys.
- **Work location and Travel**
  - Our office is located at **246 SW 4<sup>th</sup> Ave Homestead, FL, 33030.**
  - Homestead is about 30 minutes north of the Florida Keys.
  - The ability to travel will be necessary. Most of the travel will be to attend and work booths at industry expo's that B&K exhibits in. Travel may also be necessary to oversee the installation of product at the job site, this will not always be necessary but is a possibility.
- **Prerequisite Knowledge:**
  - Experience/ Qualifications
    - A high school diploma or equivalent
    - Courses in blueprint reading, shop mathematics, mechanical drawing, physics, chemistry, and metallurgy are advantageous.
    - At least 2 years of hands-on work experience.
    - Preferred experience with highways, bridges, flood control projects, and water and sewerage control systems.
  - Skills/Personal Traits



- **Arm-Hand Steadiness** — The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.
- **Control Precision** — The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.
- **Critical Thinking** — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- **Monitoring** — Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
- **Near Vision** — The ability to see details at close range (within a few feet of the observer).
- **Operation and Control** — Controlling operations of equipment or systems.
- **Operation Monitoring** — Watching gauges, dials, or other indicators to make sure a machine is working properly.
- **Problem Sensitivity** — The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- **Reading Comprehension** — Understanding written sentences and paragraphs in work related documents.
- **Visualization** — The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.
- Salary and Benefits:
  - Salary is dependent on experience.
  - Depending on advancement, receiving commission on sales is possible.
  - B&K offers quality health insurance for employees.
  - Paid vacation time is possible.

### How to Apply

For more information and job application visit the job opportunity tab on our company site at [www.bkinstall.com](http://www.bkinstall.com). Applicants should fill out the application form and upload their resume and a cover letter outlining how they meet the specific requirements of the position .

**While we sincerely appreciate all applications, only those candidates selected for interview will be contacted.**

**Please note the selected candidate will be required to submit to a background check and a drug and alcohol test upon employment.**