

Bodycote Thermal Processing Job Description

Date Originated: May 2012
Job Title: Process Engineer
Location: Canton, MI (Haggerty Road)
Reports To: Vice President Operations - AGI
Supervises: None

Bodycote has an international reputation for total reliability and unrivalled expertise in all significant heat treatment processes. The company operates nearly 200 facilities in 27 countries. We deliver vital capacity and unmatched investment to the worlds manufacturing industries. Visit www.bodycote.com for a more detailed look at Bodycote.

Summary: Support Quality and Production Departments in all areas as listed in essential job functions, working closely with Manager. Bodycote's newest facility "the Haggerty Road Plant" offers the latest high volume nitride technology. The plant is a core supplier to the automotive tier 1 supply chain and OEMS. The successful candidate will have a metallurgy or material science background, able to manage the metallurgical lab as well as quality initiatives. The qualified candidate will also have some experience in TS16949 and CQI9.

Requirements (Qualifications & Skills):

- ◆ Education: Must possess basic metallurgical knowledge obtained through formal university or college training or combination of training and experience. Metallurgy or Material Science degree required.
- ◆ Experience: Desire internship experience in Quality Control and/or practical knowledge of commercial heat treatment of steel, aluminum, titanium, nickel, brass, copper, etc. although this is not a requirement.
- ◆ Language Skills: Requires effective verbal and written communication skills.
- ◆ Environment: May be exposed to heat, noise, dust, fumes and humidity
- ◆ Must be capable of interpreting general procedures for heat treatment of specific alloys, in accordance with customer needs.
- ◆ Must be capable of understanding and improving Quality System and Procedures.
- ◆ Must be detail oriented and able to meet deadlines.
- ◆ Working knowledge of computer operations is required.
- ◆ Desire knowledge of inspecting heat treated products and ability to prep samples
- ◆ Desire ability to use macrohardness tester, microhardness tester and use other testing and prepping equipment
- ◆ Willingness to learn and operate heat treat furnace – may involve preparing loads for processing.

Essential Job Functions (Duties & Responsibilities):

- ◆ Ability to see PPAP process from start to finish
- ◆ Management responsibility includes assuming the duties of the Quality/Production Manager in his/her absence.
- ◆ Identifying and recording present or potential conditions that would have a detrimental effect on product, process, or the quality system and initiating corrective or preventive action procedures to address these conditions and verifying the effectiveness of corrective actions. May include controlling or stopping further processing of product until corrective action has been satisfactorily implemented.
- ◆ Coordinating the interdepartmental efforts required to comply with quality assurance requirements.
- ◆ Identifying quality training needs and taking steps to ensure training is provided.
- ◆ Reporting on the performance of the quality system to management for review and as a basis for improvement of the quality system.
- ◆ Communicating to all levels on the status of the quality management system.

- ◆ Assist in general quality activities including control of quality records, monitoring quality objectives at all levels, implement, monitor, and maintain the BMS, evaluation/disposition of non-conformances, audits (on site and internal), implementation and support of the navigator operating system.
- ◆ Monitor and maintain instruments including instrument recall, instrument calibration, monitor and maintain process control testing, temperature uniformity surveys, quench effectiveness, monthly mechanical testing, surface contamination test, carb/de-carb test, IGA and IGO test, burnouts and leak ups.
- ◆ Monitor and maintain outside processing including evaluation of suppliers, generating purchase orders, review certifications of conformances and review test reports.
- ◆ Support in process and final inspection processes, receiving inspection, contract review, braze and heat treat, temper inspection, generate and sign certifications.
- ◆ Other duties as assigned or dictated by position.

Bodycote offers a competitive salary, including health, dental, vision, STD, LTD, Life Insurance, tuition reimbursement, and 401K.

Bodycote is an equal opportunity employer

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed above are representative of the knowledge, skills and ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. This job description does not constitute a written or implied contract of employment. Bodycote reserves the right to revise or change job duties and responsibilities as the need arises.