

JOB DESCRIPTION: PROCESS ENGINEER

My new client is the key player in the low-cost titanium investment casting industry. This privately-held 250 person firm is located in Oregon's beautiful Willamette Valley, 60 miles south of Portland, offering an excellent quality of life and very affordable housing. The company provides a solid compensation package and benefits, an excellent team environment, and a great high-visibility growth opportunity for a junior materials scientist to be groomed into a VP role. They hope to double revenues in the next five years. [If you are interested or have a referral, please alert me. Also, if you prefer not to receive email from me, please respond with "unsubscribe" in the subject line.](#)

Thank you,

Nicholas Meyler
Senior Vice-President
Wingate Dunross

ph (818)597-3200 ext. 211
nickm@wdsearch.com

Job Duties and Responsibilities:

- Ability to implement process changes in a production environment.
- Presentation skills to advise management of plans and results.
- Develop new processes that benefit product quality and productivity.
- Design, implementation and analysis of experiments to solve production problems.
- Evaluate part quality as it relates to specific processes.
- Work with suppliers to establish purchasing specifications and control of incoming materials.
- Good leadership skills.

Technical Skills Specific to Client:

- Experience with waxes and the injection tools which produce them.
- Slurry development of colloidal systems with knowledge of interaction of polymers, surfactants and pH stabilization.
- Have an understanding of ceramics as they relate to investment casting, including zirconia, alumina, silica.
- Understanding of wax removal techniques, including autoclave and flash firing.
- Understanding of the sintering characterization of ceramic systems; knowledge of tungsten desirable.
- Knowledge of arc melt furnaces.
- General knowledge of casting defects (hot tears, no fill, flow lines, shrink, shell inclusions).
- MS degree in Materials Science (or related field), PhD preferred. Post-docs will be considered, Industrial/commercial experience a plus.

AND

JOB TITLE: CAD Designer

Department: Engineering

Reports To: Engineering Manager

Classification: Salary, Exempt

SUMMARY: Uses CAD equipment to provide support to Engineers by preparing routine layouts, detail drawings, assembly drawings, sketches & diagrams. Details to include all views and dimensions necessary for manufacture. Make copies of drawings and maintains information regarding changes to databases. Makes simple decisions but refers most questions / problems to

Engineers or Supervisor. Solid understanding of 3D solid CAD modeling, drafting techniques and familiarity with Engineering terminology. Will work with Engineering department to take rough concepts for fixtures and follow through with complete design and documentation of requirements. Mechanical aptitude with ability to complete basic mathematical calculations. Familiarity of CAD /CAM equipment in addition to basis skill level in MS Office is required. High school with Associate's degree in Computer Aided Drafting with strong 3D solid modeling and math, and / or equivalent experience and training.

Essential Duties and Responsibilities:

- ◆ Uses computer assisted design/drafting (SolidWorks, Catia (V5) or Unigraphics (NX4)) equipment and software to develop mold and fixture designs.
- ◆ Create and revise production drawings (detail and assembly drawings).
- ◆ Utilizes knowledge of various machines, engineering practices, mathematics, building materials, and other physical sciences to complete drawings / solid models.
- ◆ Drafts detailed multi-view drawings of various fixtures and manufactures 3d Solid models to be used with CNC programming.
- ◆ Model finished designs from sketches and verbal instructions from Engineers.
- ◆ Update Drafting and Engineering Standards.
- ◆ Communicate with QA, Engineering, and Manufacturing regarding new and revised prints / models.

- ◆ Ability to modify models for variable shrink and chem mill (offset) is preferred.
- ◆ Create 3D solid models based on Customer supplied prints.



MINIMUM QUALIFICATIONS AND EXPERIENCE –

- ◆ Must have good communication skills and be able to work closely and effectively with other departments and individuals within the organization.
- ◆ Must be self-motivated, organized and have attention to detail.
- ◆ Able to read and follow printed instructions on M.P.R. (Manufacturing Process Router), technique cards and any other written directions or instructions presented.
- ◆ Able to assimilate and follow verbal instructions provided by co-workers, supervisor, engineers, etc.
- ◆ Able to interpret blueprints.
- ◆ Math skills which include trigonometry and geometric tolerancing, basic computer skills and understanding.
- ◆ Preferred skill level in the proper use and understand the following equipment: Dial calipers, dyers, height gages, dial indicators, bore gages, sine plates, gage pins, fixtures, end mills, and CMM machine.
- ◆ Must be mechanically inclined and have an understanding of basic machining skills (vertical mill / lathe).



PHYSICAL DEMAND – The physical effort applied in this job is minimum, except for required lifting and carrying of up to 60 lbs. Without assistance.

MENTAL OR VISUAL DEMAND – Concentrated mental and visual attention; the work involves performing complex tasks to very close accuracy and quality specifications; or a high degree of hand and eye coordination for sustained periods.

WORKING CONDITIONS – Work is performed under reasonably good working conditions; while exposure to any or all of the above elements may occur, such exposure is generally not present to the extent of being disagreeable.

ATTENDANCE – While all employees are expected to comply with company standards, the nature of some positions may require different attendance standards in order to fulfill the essential functions of the job.

AND

PRODUCT DEVELOPMENT ENGINEER

RESPONSIBILITIES: Involves all aspects of dimensional control, beginning with tooling design, inspection of patterns, in-process and final castings, as well as interrelation of process variables with dimensional results. Hands-on capability for dimensional measurements.

QUALIFICATIONS: B.S. degree in mechanical or metallurgical engineering or
6-10 years of professional work

experience in lieu of degree or a combination of education and work experience required. On-the-job experience using computers and a familiarity with Solid Works, Unigraphics, and Catia preferred. Knowledge and familiarity with geometric tolerancing.

BENEFITS:

Company paid insurance for employee and family including medical, vision, pharmacy, and dental. Company-paid short- and long-term disability and life insurance for employee. Cafeteria plan, profit participation and 401(k) plans available. Paid holidays and vacations.

Nick Meyler
Wingate Dunross
28632 Roadside Dr. #203
Agoura Hills, CA
91301