

Job Title: AQ Product Design Engineer-I

Category: Exempt

Reports To: Engineering Manager/Product Design Lead Engineer

Position Summary: Perform engineering functions to support Iwaki Aquatic product development. Produce all engineering documentation to define and maintain product designs.

Essential Functions:

- Engineering support for aquatic products including production drawings, part and BOM development, and component/system testing.
- Extensive use of SolidWorks CAD and PDM to develop, manage, and maintain designs from concept to production.
- Produce documentation to define new products: theory of operation and functional specifications, process flow diagrams, system flows and capacities, component sourcing and sizing.
- Follow company ISO protocols and ECOs for new product development.
- Create detailed assembly drawings of new product designs for release to IA manufacturing.
- Produce product specification brochures and user manuals.
- Participate in R&D and prototyping to validate product fit/form/function.
- Assist in supporting aquatic demo equipment to ensure everything is functional and current.
- Help develop & maintain product design processes & procedures.
- Maintain standard products under revision control.
- Work closely with Production to refine and revise products based off manufacturing feedback.
- Work closely with Sales and other engineers to help define new products and custom solutions.
- Use in-house 3D printer & CNC machine to make prototype parts as needed.

Qualifications:

- Bachelor's degree in Mechanical or Aquacultural Engineering or related field.
- Proficiency in SolidWorks 3D CAD modeling. Experience working with large assemblies. Knowledge of SolidWorks PDM a plus. Knowledge of SolidWorks electrical and/or piping a plus.
- Experience with aquatic systems. Interest in aquarium/aquaculture systems, biology, and aquatic animal husbandry.
- Experience with piping systems and electrical circuitry and controls
- Data Analysis and Problem-Solving Skills
- Proficiency in Microsoft Office Products
- Oral and Written Technical Communication Skills
- Experience Working as Part of a Cross-Functional Team
- Relationship Building Skills
- Organizational Skills
- Forward thinking, self-starter that takes initiative to see all projects to conclusion through diligent & creative solutions
- Ready to roll up sleeves and work hard while having fun at the same time
- A passion for Technology and how things work

Delegation of Authority:

- The Iwaki America Inc. Delegation of Authority Matrix is incorporated herein by reference