

# Job Description: Product Development Engineer – Mechanical (Heating Industry)

## Position Overview

The **Product Development Engineer – Mechanical** will be responsible for designing, developing, and prototyping heating products, ensuring they meet functional and market requirements. The candidate must have strong **3D design skills** and be proficient in **CAD, SolidWorks, and other design tools**. The role requires hands-on experience in **hardware fabrication**, along with a deep understanding of **product design** from a customer-centric perspective.

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## Roles & Responsibilities

### Product Design & Development

1. Conceptualize and develop **innovative heating products** based on customer needs and market demand.
2. Create detailed **3D models and technical drawings** using **CAD, SolidWorks, or similar software**.
3. Perform **design validation and simulation** to ensure product feasibility and durability.
4. Optimize designs for **manufacturing feasibility, cost-effectiveness, and performance**.

### Prototyping & Fabrication

5. Work on **prototyping, assembling, and testing** mechanical components.
6. Use **hardware fabrication techniques** (such as welding, machining, sheet metal fabrication, etc.) to develop prototypes.
7. Identify and resolve **technical challenges** in the prototyping phase.

### Product Testing & Performance Evaluation

8. Conduct **functional and durability tests** to ensure the product meets **safety and performance standards**.
9. Work along with the team to ensure compliance with **industry regulations and certifications**.
10. Analyse test data and implement **design modifications** to improve product efficiency.

### Customer-Centric Product Design

11. Ensure product designs are aligned with **customer requirements, usability, and aesthetics**.
12. Collaborate with the marketing and sales team to gather **customer feedback** and integrate improvements.
13. Continuously enhance designs by **keeping up with industry trends** and customer preferences.

## Cross-Functional Collaboration

14. Work closely with **manufacturing partners** to ensure smooth production processes.
  15. Assist in developing **technical documentation, assembly manuals, and manufacturing guidelines.**
  16. Coordinate with **electrical and thermal engineers** to integrate heating components into the design.
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## Educational Qualifications & Experience

- **Bachelor's Degree in Mechanical Engineering** (Mandatory)
  - **Minimum 2 years** of experience in **product design, development, and fabrication**
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## Key Skills Required

- ✓ **Proficiency in CAD, SolidWorks, and other 3D design software**
  - ✓ **Strong hardware fabrication skills** (machining, sheet metal, welding, etc.)
  - ✓ **Experience in prototyping and product validation**
  - ✓ **Strong knowledge of mechanical components and materials**
  - ✓ **Good understanding of thermal and heating technologies**
  - ✓ **Problem-solving mindset with attention to detail**
  - ✓ **Ability to design with customer requirements and market trends in mind**
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## How to Apply:

Interested candidates can submit their updated resume to [career@asvrl.com](mailto:career@asvrl.com)