

Project Engineer

Position:

Do you have a concern for people and the environment? Do you have a background in engineering with an interest in R&D and manufacturing? Are you creative, systematic, and results oriented? Do you enjoy a variety of work? Are you willing to make a difference in your life in order to make a difference in the world?

Burn Design Lab, headquartered on Vashon Island, WA is offering a position to a clear thinking, creative, graduate in mechanical/industrial engineering, who is ready to make lasting contributions to the development and manufacturing of leading-edge biomass burning cookstoves. We are looking for someone who enjoys working both independently and with others to develop creative solutions to challenging problems. Burn Design Lab is able to provide salary + benefits, paid time off (3 weeks vacation plus 14 holidays) to the selected candidate. Burn Design Lab is a U.S. based internationally focused non-profit organization dedicated to the improvement of lives and the environment through research, design, and development of outstanding cookstoves and fuels.

The successful candidate will be engaged in some or all of the following:

- Working collaboratively with others to develop conceptual designs and prototypes of both cookstoves and cookstove manufacturing equipment & systems.
- Applying proven industrial engineering concepts to cookstove manufacturing in less developed countries.
- Using CAD to design and iterate cookstoves, tooling, jigs, fixtures related to cookstove manufacturing (and sheet metal forming)
- Building cookstove prototypes from sheet metal (forming, spot welding, and general metal fabrication), ceramic, refractory, & other materials.
- Designing and developing 3D printed patterns, molds, or dies for casting, sheet metal fabrication, or forming ceramics/clay
- Conducting cookstove performance tests in the laboratory and evaluating/selecting cookstove materials
- Interfacing with local and international partners, volunteers, and end-users to conduct research and make informed design/manufacturing decisions
- International travel to & work in one or more low- or middle-income countries 1-2 times per year for up to 1-2 month duration, depending on the needs of projects.

The selected candidate will report to the Director of Engineering and work with the rest of the Engineering team.

Experience:

Applicants should have the following experience and aptitudes:

- Completed a bachelor's or master's degree in engineering
- At least 1-3 years of experience in engineering product development
- Competency in Fusion360 &/or other CAD tools
- Hands-on maintenance, fabrication, &/or construction experience
- Eagerness to learn hands-on, academically, and from experienced mentors.
- A willingness to pitch in as needed for the success of the organization and our mission.

Preferred:

- Project management experience- project engineers are expected to take on some responsibilities of project management due to the nature of working on a lean team
- Sheet metal design and fabrication including, but not limited to, bending brakes, rivets, spot welding, rolling, cutting/stamping, etc.
- Familiarity with CNC Plasma/Laser Cutting, CNC Press Brakes, 3D Printing, CNC Machining, etc.

Start Date: Q4 2024

Compensation: \$60-75k / year, depending upon qualification. Health/dental benefits. Paid time off. Holidays

Location: This position is on-site at BDL's laboratory on Vashon Island, state of Washington, U.S.A. Proof of authorization to work in the U.S.A. required.

Apply: To apply, please send your CV and cover letter to hr@burndesignlab.org. For more information on Burn Design Lab, please visit www.burndesignlab.org