

Job Description

CAD Modeler

About Us

Reframe Systems is on a mission to build net-zero carbon housing for all, at massive scale. To achieve our mission, we need to make net-zero carbon housing more affordable and we are re-imagining how housing is designed and built. Our volumetric module platform and highly-automated production system will drive down cost, delivery time, and embodied carbon for multifamily housing. We are setting up our first digital factory in the greater Boston area (Andover, MA), and have a roadmap to scale our presence nationally. We are disrupting assembly line manufacturing for housing production and are backed by leading VC firms in the industrial and construction space.

What We're Looking For

We are looking to transform the AEC design process to support our novel production system. This means creating designs that are far more detailed than traditional AEC workflows dictate, augmenting CAD workflows with advanced scripting and automated design logic, and generating many supporting assets to aid manufacturing and analysis. We are looking for a problem-solving self-starter who likes a challenge and thrives in a multidisciplinary environment.

We are seeking a talented and detail-oriented Computer-Aided Design (CAD) Modeler to join our dynamic architectural, engineering, and construction (AEC) team. The CAD Modeler will play a crucial role in transforming conceptual designs for residential and low-rise multi-family buildings into precise, detailed 3D models. This role requires a strong command in mechanical CAD software such as Catia, Creo, Onshape or Solidworks, with deep working knowledge of creating and updating models; a keen eye for accuracy; and a deep understanding of 3D model management. Ideally, the candidate has worked with the scripting capabilities of their CAD system and has a developed understanding of the challenges of automating design.

The CAD modeler will work closely with architects, designers, and engineers in a collaborative and creative work environment.

The position reports to the Head of Building Products. The position is full-time, salaried, exempt.

Responsibilities

- **CAD Modeling and Detailing:** Create detailed 3D CAD models using world-class mechanical parametric CAD systems. Collaborate with architects and designers to convert design concepts into high-fidelity 3D CAD models.
- **CAD Management:** Organize and maintain 3D models, files and documentation, including revisions, ensuring that the latest versions are readily accessible to team members. Manage and update CAD models, families, and templates.
- **Model Coordination:** Work closely with other CAD modelers (external partners) to coordinate on the CAD models, perform clash detection, and ensure effective change management.
- **Quality Assurance:** Review 3D models for accuracy, completeness, and compliance with project standards and regulations. Make revisions as necessary to address design changes or discrepancies.
- **Manufacturing Drawing Preparation:** Work with other CAD modelers (external partners) to generate 3D details of structural, MEPF and other systems, ensuring compliance with building codes and regulations.
- **Collaboration:** Collaborate effectively with other CAD modelers, architects, project managers, and other team members to meet project deadlines and objectives.

Basic Qualifications

- Minimum 3-5 years of experience as a CAD Modeler is required for this role. Bachelor's degree in an engineering field is required. Background in the construction industry is a plus.
- Proficiency in CATIA, Onshape, or Solidworks to create, manage, and update 3D CAD models. Knowledge of Autodesk Inventor and Revit is a strong plus.
- Prior experience in CAD modeling is required.
- Ability to quickly pick up a wide variety of CAD software plugins.
- Excellent attention to detail and the ability to produce accurate and precise 3D models.
- Effective communication skills and the ability to work well in a team.
- Problem-solving skills and the ability to adapt to changing project requirements.

How to Apply

Email your qualifications to jobs@reframe.systems. Please include a portfolio of works highlighting key projects where your CAD Modeler role included model management, CAD modeling, and detailing. We love robots, but all resumes will be human reviewed.