### **7GEN COMPONENTS**

Offsite Construction Manufacturer

JOSHUA C. SCHAAF



Craft Contracting and
Consulting
Specialty Contractor
JODI LARIO





# Mission Statement

7GEN Components and Craft Contracting and Consulting's shared mission is to support Tribal communities by utilizing Washington State's timber resources and innovative construction techniques to address the housing shortage, while providing workforce development training that fosters career opportunities and economic growth.





### **Services**

- Design Build
- Preconstruction
- 3D Modeling
- Clash Detection
- Turnkey Rough Carpentry
- Component Assembly



Craft Contracting and Consulting is a woman owned specialty contractor, dedicated to providing exceptional turnkey rough carpentry services. With extensive experience in the construction industry, we excel in the installation of offsite built framing systems. Our expertise lies in delivering high-quality craftsmanship and efficient solutions for residential and commercial projects.



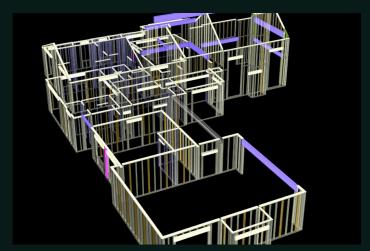
7GEN Components is a Nativeowned manufacturer of Offsite Built Systems for commercial and residential construction. Our vision is to address the housing shortage and affordability while ensuring we leave the planet better for the next 7 generations..



## Offsite Built Systems: an Overview

Offsite Built systems involve manufacturing building components in a controlled factory environment and then transporting them to the construction site for assembly by Craft Contracting and Consulting

This innovative approach encompasses methods like panelization, modular construction, and mass timber structures, allowing for various levels of preassembly and integration of mechanical, electrical, and plumbing systems.







### Examples Of Offsite Construction









#### **STAGE 1 PANELIZATION**

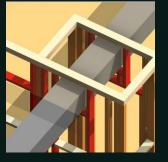
Panelization creates flat panels, such as walls or floors, in a factory, which are then assembled onsite into the building structure.

#### STAGE 2 MEP INCLUSIONS

Integrating MEP components into prefabricated components streamlines construction by allowing efficient assembly and reducing project timelines.















### STAGE 3 MODULAR

Modular construction builds whole sections or rooms of a building, including utilities and finishes, in a factory. These modules are then assembled onsite into a complete building.

**15-20%** reduction in Lower labor costs and Cost Savings reduced material waste construction costs Simultaneous site Projects completed 30-Time Savings preparation and building **50%** faster construction Energy-efficient designs Up to **90%** reduction in Sustainability and reduced CO2 construction waste emissions Controlled factory 80% fewer on-site Safety environment reduces incidents exposure to hazards Reduced weather-related Consistent quality with **Quality Control** factory precision delays and defects Flexibility & Customizable designs and Easily scalable for future Scalability modular options expansions



# Early September

# Mid September

• **Lincoln Place:** 33,200 sq ft project featuring (20) 3-level duplexes of affordable housing in Tacoma, WA.

Structural Start: September 2022Structural Finish: October 2022



# CHIEF SEATTLE SACRED MEDICINE CLUB APTS, SEATTLE, WA

Project Size: 51,508 sq ft, 120 units.

Purpose: Permanent supportive housing for Native American individuals experiencing homelessness.

Impact: Reflects dedication to community support and addressing homelessness.

**STRUCTURAL** 

COMPLETED IN 2

**MONTHS** 

**VS. TRADITIONAL** 

FRAMING SCHEDULE

**OF 4 MONTHS** 



# Housing Crisis WA STATE NEEDS:

50,000 new homes annually



1.1 Million new homes will be needed in the next 20 years

In addition, there will also need to be:

91,357 Emergency housing beds (temporary housing)







# sustainability education **FOREST** TO HOME manufacturing housing

### Circular Investment and Economic Growth

The Forest to Home movement focuses on utilizing local forests to create sustainable building materials, promoting a circular economy in the construction industry. This initiative emphasizes the use of Washington State's abundant timber resources, including underutilized species and lumber waste, to produce high-quality, eco-friendly housing components.

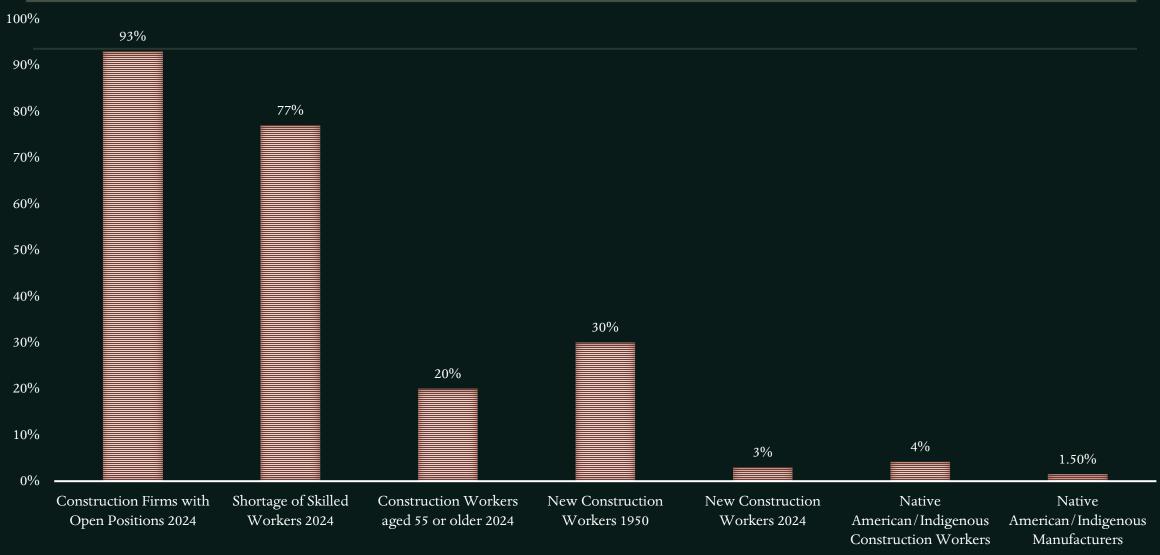
In Washington State, where Douglas Fir is a common building material, mass timber provides an opportunity to diversify the use of local wood species. By incorporating other available trees and utilizing lumber waste, mass timber contributes to a more sustainable and efficient forestry industry, ensuring that more of the forest biomass is put to good use.



Mass timber is an innovative construction material composed of large, solid wood panels or beams. These engineered wood products include Cross-Laminated Timber (CLT), Dowel-Laminated Timber (DLT), and Adhesive-Laminated Timber (ALT).

### MASS TIMBER

### WA Workforce Development Needs



### 7GEN & Craft get involved:



### Advisory Board Memberships

Washington State Apprenticeship Training Council - Tribal Subcommittee

Washington Mass Timber Alliance

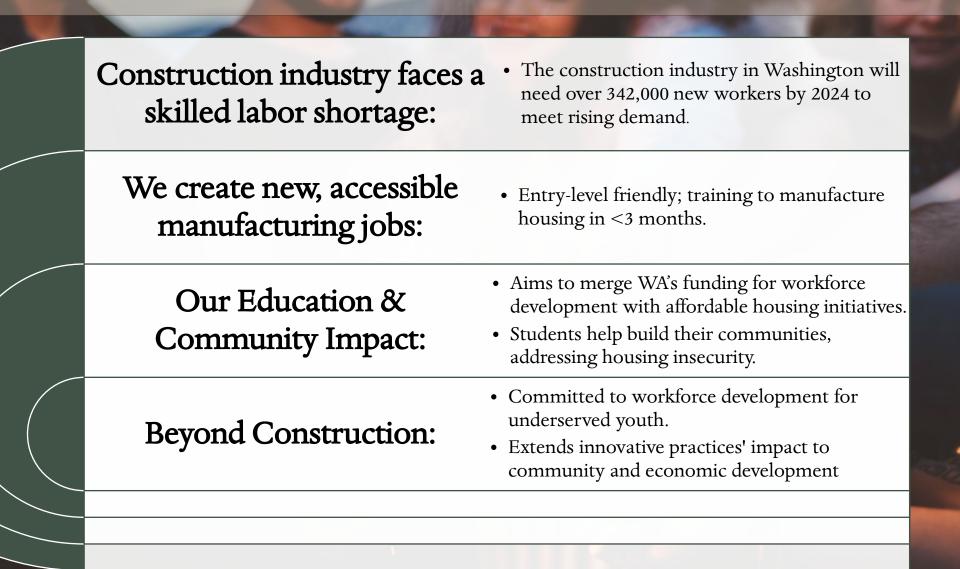
Auburn Public Schools Career and Technical Education (CTE) programs

Federal Way Public Schools Career and Technical Education (CTE) programs

Outreach Chair, Puget Sound Regional PreApprenticeship Collaboration (RPAC)

Outreach Committee, Pierce County Community Engagement Task Force

### WORKFORCE DEVELOPMENT AND COMMUNITY IMPACTS





# We cannot always build the future for our youth, but we can build our youth for the future.

Franklin D. Roosevelt







# SUMMARY

15-20% reduction in construction costs

80% fewer

on-site

incidents

Our goal is to <u>stimulate local economies</u>, <u>provide affordable housing</u>, and <u>leave the</u> <u>planet better for the next seven generations</u>.

Projects completed <u>30-</u> <u>50%</u> faster

By using <u>local timber</u>, including lumber waste, we can produce ecofriendly mass timber components.

Up to 90% reduction in construction waste

At 7GEN Components and Craft Contracting, we are dedicated to <u>creating a circular economy</u> that <u>connects forestry, education,</u> <u>manufacturing, housing, and sustainability</u>.

Our <u>partnerships</u> with schools and preapprenticeship programs aim to provide <u>valuable skills</u> and <u>career opportunities</u> for Tribal members and our community.

### Contact Us

7GEN Components 253.649.3811 Josh@7GENComponents.com Joshua@craftcontracting.net

Joshua Schaaf

www.7gencomponents.com

Jodi Lario Craft Contracting and Consulting 253.649.3319 Jodi@craftcontracting.net www.craftcontracting.net

