

Marilyn Crenshaw

General Information

Agency: The Green Architect

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Prerequisites

Looking for Disciplined self study independent study partially unsupervised super passionate enthusiastic researcher self reliant student. Must be search savvy to try many different possibilities of keywords searching on internet plus attend as many green conferences or local gov't public meetings as possible.

During the internship student shall keep a weekly excel sheet timecard outlining the exact research or work student has done and email this to the architect as part of weekly communication.

Architect will be available by phone, Skype, internet/email, &/or in-person to communicate w/ student weekly & as needed. Architect will not approve internship units or provide evaluation until student has completed all intended work

Learning Objectives

How local government works, how projects manifest, communication skills, research, how to move early adoption to mainstream, stakeholders matter, collaboration & cooperation

Brief Statement About the Agency

Local Architect Marilyn Crenshaw has been working in the ecological architecture business in the Santa Cruz area for 40 years

UCSC PROJECTS 2018

General: all database research to be compiled in a spreadsheet with link, name, description, location, notes. All of this info is for a start up I'm working on with a Santa Cruz team.

Internship can eventually lead to a paying position

Database Of Utility Systems

1. Project # 1- Database of all kinds of water filters to make water potable, make sure to include UV lights, all manufacturers
2. Project #2- Database of all kinds of grey water systems: proprietary, prefab & natural, all manufacturers

3. Project #3- Data base of proprietary , prefabricate septic/ sewage treatment systems, all manufacturers
4. Project # 4- Database of prefabricated integrated water infrastructure systems: this would include: pumps, pump pressurizer, filters all preassembled on a board, ready at each end to receive input from water source, and output to building water fixtures & appliances, all manufacturers
5. Project # 5-- Database of cisterns for water collection, all manufacturers
6. Project # 6- Database of solar hot water systems, all manufacturers
7. Project # 7- Database of prefabricated renewable energy systems, ready to use instantly at job site for long term power at the property
8. Project # 8- Database of backup battery systems for renewable power, all manufacturers

Building Systems

9. Project # 9- Database of All kinds of prefabricated homes, all manufacturers
10. Project # 10- Database of all kinds of tiny houses, all manufacturers
11. Project #11- Database of Homeless Tiny Home projects in USA, indifferent Cities & Counties. I have a start of a list. Need to add to it (projects that are already built)
12. Project #12- Database of all kinds of modular kit homes (these come in floor, wall, and roof panels, come stacked on truck to site, and get erected/installed on site), all manufacturers
13. Project # 13- Database of shipping container homes, all manufacturers
14. Project #14- Database of prefabricated/kit greenhouses, all manufacturers
15. Project # 15 -database of Prefabricated foundation systems such as soil anchor/screws and prefab concrete panels. No excavation or concrete pouring on site, all manufacturers

Databases of Local Government Rules

16. Project # 16 -Database of USA local governments that allow rain water harvesting sources as potable water
17. Project # 17 -Database of USA veterans housing projects that allow tiny houses
18. Project # 18 -Database of local codes in USA that allow tiny house single projects or tiny house subdivisions
19. Project # 19 -Database of USA affordable housing projects that allow tiny houses
20. Project # 20 -Database of local jurisdictions that have tiny house projects for homeless: research regarding green affordable tiny houses, I already have a list of a few dozen USA cities that have already built or are in process of: building tiny homes for the homeless. These tiny homes are essentially a shed with a bed inside. Find even more cities in USA who are building or have built tiny home projects for either homeless/ veterans/ or for any other demographic..

Make contact and have conversation with live person at each location and find out on all of them:

- Inventory the characteristics of the units (floor area/height/materials/style), floor area, building materials used, how the materials were acquired and funded
- What were their expenses for land/materials/labor,
- What different kinds of grants did they receive to fund it do they grow food on location
- Who were all the stakeholders who helped approve it (churches, politicians, donors, private citizens, volunteers, property owners)
- Who were all the volunteers groups & church groups & non profits,
- What was the zoning allowed use of the property where it was allowed to go on, and was a variance required or did they create a new zoning to allow it?
- Find out the specifics of the community structure that has the kitchen/bathing/toilet/laundry and water systems facility that the tiny home
- Occupants use, include specifics (solar panels, rain water harvesting , gray water, proprietary black water reclamation)
- Create image bank of all of the different tiny homes that have been built to date
- Create an image bank of the community structure that has the kitchen/bathing/toilet/laundry and water systems facility
- Enlist the major stewards at each existing tiny home facility location to become mentors to become mentor coaches to other jurisdictions so they can pursue it coach the rest of the country

Internship Outcomes

1. Some of the research will be used by a new startup to pursue funding of prototype of ultra tiny home eco communities
2. Some used BY 501(c)3 non-profit TheBlueArchitect.Org, to apply for grants , to host free database on all things related to water

If Interested

Please email me your proposed research project, number of units, (2 units vs 5 units) GPA, resume, year of study at UCSC, and letter of recommendation from university staff or other professional contact, attesting to your disciplined self study habits. Student understands that this is NOT a paid position.