



Build Change, BIM Design Innovation Intern

Project location: Makati, Philippines

Proposed start/end date: Negotiable, 10 weeks between May and August 2018

Project Description

Build Change Philippines is in the development phase of our urban housing retrofitting program intended to increase the disaster-resistance of non-engineered housing occupied by low-income families throughout Metro Manila. An estimated 4 million Filipinos in Manila reside in homes that do not meet building/structural code requirements built by local builders without disaster-resistant training. The families are at risk due to active fault lines that exist throughout the Manila area with a history of generating large magnitude earthquakes.

Due to limited funding and lack of local technical capacity for retrofitting, an innovative and efficient design and construction process is critical to scaling the project and reaching the number of people in need. To simplify, accelerate, and improve the design process, Build Change is developing Revit project templates used to generate existing building models, existing building drawings, retrofit design drawings and material BOQs. The project templates will ultimately utilize Dynamo scripting to simultaneously perform engineering calculations through visual cues and indicators.

About this Internship Project

For this internship, you will gain hands-on, real-world experience by:

- Develop building components and 3D details in Revit to ensure the template has a complete library of anticipated construction activities.
- Develop Dynamo scripts used to generate models automatically
- Perform engineering evaluation checks
- Output the information to complete design packages
- Provide training for local staff in the utilization of the tools

Qualifications, Skills & Experience

The ideal candidate should possess the following:

- Experience using Autodesk Revit software

- Computer program scripting experience (Visual Basic, C++, Grasshopper, etc) desired
- Pursuing a degree in building design or construction, such as engineer or architect
- Construction experience desired
- Interest in post-disaster response and reconstruction or pre-disaster mitigation desired
- English language proficiency
- Good communication skills and excellent teamwork abilities
- No ego, drama or pessimism; the successful candidate will be flexible, humble and patient, and have a good sense of humor
- Valid passport
- Enrollment in the [Autodesk Student Expert](#) program prior to the internship commencing.

What's in it for you

- Real world experience with an award-winning international social enterprise
- Use and further develop your skills to help improve the structural safety of the homes of thousands of low-income families, decreasing their risk from the impact of a natural disaster
- Understand how to improve construction sequences of socialized housing
- Learn more about disaster-resistant construction techniques
- Be mentored by professional engineers with extensive experience in applying the principles of disaster-resistant construction
- Paid compensation with housing, food and transportation provided

Please submit your resume and a cover letter to Trena Moya at trena@buildchange.org by 1 April 2018 and include **BIM Design Innovation Intern** in the subject. **Applications will be reviewed as they are received and interviews may be scheduled prior to the closing date.** Women are encouraged to apply.