



Masonry Advisory Council

1440 Renaissance Drive, Suite 340, Park Ridge, IL 60068

masonryadvisorycouncil.org | (847) 297-6704

Masonry Foundation Grant Application

Project Title: Masonry Insight Program - From the Ground Up!

About Masonry Advisory Council

The Masonry Advisory Council was established in 1971 through an agreement between the IL local Bricklayer Unions and the Mason Contractors that work within that sector. Since that time, the organization has grown with financial resources from other industry supplier support.

Who we are:

The Masonry Advisory Council is a collaboration of Educators, Experienced Professionals, Engineers, and Supplier Groups that support masonry construction, materials and assemblies.

What Do We Do:

- The Masonry Advisory Council promotes and markets the benefits of masonry construction, structures, materials, and technologies through educational and informational programs. In addition to providing technical support, we are committed to providing service through ongoing promotion, marketing, education, and instructional programs in Illinois and NW Indiana. In part our purpose is to provide full knowledge and awareness on the part of architects, engineers and the general public concerning proper construction methods, possible uses and costs of masonry build and products.
- Create promotional programs advocating the use of masonry products and foster programs which consist of masonry in order that there may be increased work opportunities for mason contractors, bricklayers and stone masons
- Disseminate information to the public concerning safe and economical masonry construction
- Develop programs and activities creating a positive image of our industry

Project Description

Masonry Insights: Full Day Masonry Training for Graduate Students and Interns

Students will be engaged in both classroom discussion and hands on activities as they earn their certificate of completion and AIA credential before being placed into the workforce for further masonry career development. They will then begin their career with a basic working knowledge of how our materials are made, as well as the physical aspect of building with our products. In addition, they will receive education from practicing professionals in architecture and engineering. This is an experience for young people, and taught by young people with a specific intention to connect them to our industry. It is important for them to recognize that our materials certainly carry longevity from the past, but more importantly they are also the best choice of materials for today and tomorrow. Unfortunately, minimal exposure on a collegiate level often deters young architects from designing with masonry. What we have come to learn, through our various relationships with successful seasoned architects (that currently build with masonry), is that they were previously introduced to masonry on an undergraduate and postgraduate level. Today there is very little exposure to masonry on a postgraduate level and it is almost non-existent on an undergraduate level.

Program Outline and Detailed Agenda:

Masonry Insight Program for Students - From the Ground Up!

This is an intense concentrated course. The purpose is to provide post-grad architectural students and interns with a hands-on experience from start to finish. Young professionals with industry related experience will also provide educational insight and answer questions.

Meet at Oakbrook Double Tree Hotel

Bus Departure

Introduction to Block - presented by: Jean Telander- Northfield Block/OldCastle/Echelon

Tour of the manufacturing facility – How is block made?

Learning Objectives

1. *Participants will be able to identify concrete Masonry's inherently sustainable qualities.*
2. *Participants will understand how improvements of the manufacturing processes have affected the strengths, fire ratings and overall performance of concrete masonry products.*
3. *Participants will understand the manufacturing process, with respect to quality assurance in the production of masonry products.*

4. *Participants will understand the stages of manufacturing while applying modern masonry solutions to real worked problems and examine how the use of concrete masonry products can potentially contribute to sustainable building projects.*

Lunch Break

District Council Training Center- Addison IL

Apprentice Coordinators and Instructors -Hands on Experience, Building with Masonry

Hands on Demonstration (US Robotics-The Mule) Robotic Bricklayer

Learning Objectives

1. *Participants will be given an introduction to the bricklaying building trade and the necessary tools used in the construction process.*
2. *Participants will be given an introduction to the various materials and components used in masonry construction.*
3. *Participants will have an exercise that includes hands on experience in the building of an actual masonry wall.*
4. *Participants will understand how technology (through US Robotics) will assist in the future of masonry construction. Attendees will also have an opportunity to operate "The Mule."*

Afternoon Presenters:

Structural Engineer: Cathleen Jacinto, Forse Consulting – “What non engineers need to know about building with Masonry.”

Learning Objectives

- 1 *Review basic structural properties of masonry*
- 2 *Explore masonry misconceptions and myths*
- 3 *Discover updated design criteria and methods for masonry and realistic height limitations*
- 4 *Learn how properly designed masonry can be more economical than other systems*

Architect: Ben Bercher, Wold Architects – Designing with Masonry - Personal experience on actual projects.

Learning Objective

- 1 *Participants will gain insight into the masonry design process through a licensed practicing architect.*

Mason Contractor Representative: The role of the Mason Contractor (Project Manager) and how it applies to the execution of the Architects Design.

Learning Objectives

- 1 *Participants will gain insight into the relationship between the architect and the role of the mason contractor.*
- 2 *Participants will understand the construction process and how their design vision will become a reality through the execution of the work of the contractor.*
- 3 *Participants will review possible problems and how these problems may be avoided.*
- 4 *Participants will review the on-site construction steps needed in order to have a successful outcome for their project.*

*Check in at hotel and change clothes if necessary. (Acquire breakfast voucher for Atrium)

Architectural Tour – May include -Villa Park Early Childhood Center (Structural Masonry/Storm Shelter.)

Evening Break – Pinstripes Oakbrook

Overnight Stay: Double Tree Oakbrook

Breakfast provided at Double Tree Oakbrook Atrium

**Conclusion of event*

Request for funding

For consideration, The Masonry Advisory Council requests the Trustees of the Masonry Foundation to provide a grant totaling \$4,000 for the purpose of expanding the Masonry Insight Program which will be a model for associations across the nation of how to bring in post-grad architectural students and interns with little to no previous masonry exposure or experience and increase their knowledge for successful masonry design outcomes. Request is being made to cover partial costs of hotel and transportation, speaker stipends, meals and supplies. The attendees for this program will be recruited by AIA Chicago and selected from the leading architectural colleges in Illinois and Indiana.

Proposed Deliverables

- Work directly with AIA and continue to develop a relationship with the various architectural organizations in order to establish connection with these students. Ultimately the Masonry Advisory Council also wishes to follow their respective careers in order to continue engagement and provide them with ongoing and necessary support needed to succeed with masonry design.
- The increase of knowledge and proper understanding of our materials will ultimately expand the industry.
- Report success of the Masonry Insight Program after completion of the initial session.
- Share resources developed for Masonry Insights Program with other organizations across the nations such as curriculum, toolkits, marketing materials, presentations, videos and social media content.
- The partnership will acquaint architects with our products as well as the building process needed to execute their design. The anticipated result will lead to increased and better design of masonry by fostering the necessary understanding and educational perspectives of other young professionals needed throughout the construction process.

Other funding Sources.

The Masonry Advisory Council receives partial funding from a collectively bargained agreement with District Council #1. In addition, we also receive funding from the Great Lakes Cement Shippers, Masonry Industry Advancement Fund of Northwest Indiana, and a combination of masonry material suppliers.

