From:	John Mead
To:	Liu, Judy
Subject:	RE: Architectural Engineering at OSU
Date:	Thursday, April 27, 2017 8:42:42 AM

Judy,

I enjoyed the conversation. My markups are below.

Here is a link to an article with a graph that depicts the growth of Passive House adoption. It is still early and a great opportunity for an emerging organization such as yours to be part of the pioneering work in this field.

http://www.evolveea.com/work/passive-house-goes-work

Best,

John Mead
Cellar Ridge Construction
Pioneering the Art + Science of Building Greener Communities
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109 NW 5th St. McMinnville, OR 97128

From: Liu, Judy [mailto:Judy.Liu@oregonstate.edu]
Sent: Wednesday, April 26, 2017 11:52 AM
To: John Mead <jmead@cellarridge.com>
Subject: RE: Architectural Engineering at OSU

John,

Thank you again for taking the time this morning to discuss the proposed Architectural Engineering degree program. I enjoyed learning about your company, green building, and how the Architectural Engineering program might address some needs.

To summarize some of our discussion – Cellar Ridge Construction uses green building science to

produce energy efficient and sustainable residential and commercial buildings, including tasting rooms and production facilities for wineries. Cellar Ridge does not accept the building code minimums, which can result in poor building ~~details~~ performance (e.g., moisture/mold problems), but uses engineering principles (e.g., heat transfer) for buildings with high standards for beauty, durability, water conservation, energy efficiency, and indoor air quality.

Cellar Ridge buildings consistently achieve certifications such as the Passive House Certification, a standard which requires a dramatic reduction in energy use, on the order of 80 to 90 percent more efficient than what is acceptable by code (and an even greater reduction than required by LEED). You gave an example of a house that went far enough beyond "net-zero" (energy usage equal to renewable energy produced on site) that the home owners were also able to charge their electric car. Thus, a net-zero house and net-zero transportation!

You noted that it has been difficult to find people with the right background for this work, and that your strategy thus far has been to hire people with good engineering skills and then to provide, in house, the necessary training. So, there is "absolutely a need" for engineers with the type of background that we expect to provide with our proposed Architectural Engineering degree program. You also noted that you would expect that an Architectural Engineering graduate would be very good at helping to produce buildings that meet the Passive House Certification.

Meanwhile, it seems that the green building industry is 'booming'. You started Cellar Ridge Construction 11 years ago because you saw the potential; your company has seen a 20% revenue growth rate and expect this to continue.

I hope that my summary reasonably captures our discussion. I welcome any corrections or additional thoughts you might have about the green building industry and the proposed Architectural Engineering program.

Thank you.
Best regards,
Judy

Judy Liu | **Professor** |
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cce.oregonstate.edu | **Go Beavs!**

From: John Mead [mailto:jmead@cellarridge.com]
Sent: Wednesday, April 19, 2017 12:57 PM
To: Liu, Judy <Judy.Liu@oregonstate.edu>
Subject: Re: Architectural Engineering at OSU

Judy,

Hi. Thanks for the email. I am very interested in the topic you've brought up. Perhaps a phone call would be in order. Do you have time next Wednesday or Thursday morning to schedule a phone conversation?

Cheers,

John Mead
503.560.2263
Cellar Ridge Construction
www.cellarridge.com

On Apr 19, 2017, at 11:49 AM, Liu, Judy <Judy.Liu@oregonstate.edu> wrote:

> John,
>
> I hope you are having a good week, and apologies for this e-mail out of the blue … we are proposing a new Architectural Engineering degree program at Oregon State University and have been asked to try to assess local interest in Architectural Engineering graduates. Given your background and the type of work that your company does, as well as your involvement with the CECOP program here, I am hoping to get your perspective on the potential "value added" by a program in Architectural Engineering.
>
> First, a little bit of background on the program – we see great opportunity and alignment with the strategic plan of the College of Engineering with education of students who can become leaders in the design and construction of green, energy efficient and more complex buildings. While I am not entirely familiar with your degree program in Mechanical Engineering, I would imagine that some of what we're envisioning also aligns quite well with what you had here at OSU; and we're starting conversations with some new faculty in that school about collaborations. The proposed BS in Architectural Engineering (AE) degree program will provide students with breadth and depth in the engineering sciences of buildings and their systems: structural systems; heating, ventilation and air-conditioning (HVAC) systems; electrical and lighting systems; and construction engineering and management. We're discussing technical electives that might focus on daylighting, building envelopes, building energy simulation and energy audits, and so on. The program will emphasize integration across architectural engineering disciplines as well as with the existing civil engineering (e.g., structural engineering) and construction engineering programs in our school. We are also leveraging partnerships with Wood Science & Engineering on campus and with the Architecture Department at U. of Oregon.
>
> I would be very interested in your thoughts on the potential impact of an Architectural Engineering degree program – not only for a company like yours but for others within the region. For example, would a student from the proposed Architectural Engineering program be attractive as a CECOP or full-time hire? Would these graduates fill a perceived need in the Pacific Northwest?
>
> Do let me know if you have questions or if it would be helpful for me to share some of the degree program proposal text or the proposed curriculum. I would also be happy to call to discuss.
>
> Thank you for your time. Go Beavs!

Judy

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