

## Building Envelope Materials

### Intern Job Description

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**Job Title:** Process Development Engineer

**Company Background:** Buildings use over 40% of the energy in the US. While there has been much focus on energy conservation in new buildings, relatively little attention has been paid to new technologies for reducing energy use in existing buildings. Building Envelope Materials has developed a safe low cost and minimally invasive process for reducing space heating and cooling energy use of existing buildings by 30 – 50%. We are currently engaged in a strategic alliance with the #1 building materials company in the world to further develop this technology.

**Job Objective:** The Process Development Engineer will work with BEM and our strategic alliance partner to optimize and validate our new retrofit insulation process.

**Responsibilities:** Depending on the qualifications and background of the intern, responsibilities would include one or more of the following:

- Assist in optimizing installation processes e.g.
  - Through hands-on installation during pilot projects, identify areas of process improvement
  - Work with contractors at job sites to identify areas of process improvement
  - Analyze throughput and recommend process changes based on analysis
  - Test recommended process improvements
- Design and/or prototype a new fluid metering system
- Conceptualize, analyze and test a new syntactic foam insulation material

### Why Work With BEM?

*The Opportunity Is Vast.* Look out virtually any window and you will see buildings – lots and lots of buildings. Broad scale up of our process would result in major reductions in energy use and CO<sub>2</sub> emissions throughout the world. Being part of the team that develops the process could open up career possibilities in materials companies, government, consulting, contracting - or as an entrepreneur with your own business.

*Gain Exposure To A Major Potential Employer.* Our strategic alliance partner is a \$54 B multinational that is actively hiring.

*Be Creative.* Our process is evolving. We need your help to continuously invent improvements.

*Flexible Work Arrangements.* As a startup, we can usually accommodate unusual work hours or other needs for flexible work arrangements.

