Walker Magnetics is an industry leader in designing and manufacturing a variety of permanent, electromagnetic, and electro-permanent magnet products. Our lifting magnetics can be used for handling pipes, slabs, coils, rails, radioactive material and several other applications. We deliver our product line to over 190 countries worldwide.

Two of our European Competitors have Electro-Perm magnets that seem to perform better than ours. We need an in-depth technical understanding of exactly what they do better than us and this may lead to an internal product development program. We want to reverse engineer the competitor’s products and do design calculations. This is an in-depth, highly technical project.

The company needs 4 engineers to work as a team consisting of a mixture of graduate & undergraduate students, to work about 10 hours each week. Most of the work may be done on campus after an initial meeting at the company. Weekly reports and a summary presentation are required at the end of the project.

Engineering and Physics majors – Analyze and compare WMG Electro-Perm magnets and European competitors to determine difference in European competitor products.
The project timeline begins in September and should be completed before November 30, 2016. Students will be selected by a brief interview process with the company and should have the following qualifications.

You should be able to describe why you would be a good match for this paid consulting assignment.

Mechanical Engineering Students:
1. Interest in the Project
2. Engineering Acuity
3. Basic Research and Organizational Skills
4. Ability to do Internet, Phone, and other basic Searches
5. Knowledge of Electro-perm magnets
6. Presentation Skills
7. Availability Minimum 10 Hrs./Week

Physics Major Students:
1. Interest in Project
2. Customer Interaction Skills
3. Knowledge of Electro-perm magnets
4. Basic Research and Organizational Skills
5. Ability to do Internet, Phone, and other basic Searches
6. Presentation Skills
7. Availability Minimum 10 Hrs./Week

You will work in a team with the goal of providing actionable advice to the company.

If you are interested please email mic-admin@wpi.edu and include a letter explaining why you are a good candidate for one of these positions.

Undergraduates earn $14 to $18/hour.
Initial estimate is 50 hours of work for each student.

Graduate/PhDs earn $18 to $22 per hour.
Initial estimate is for 50 hours for each student.

This opportunity is open to all academically qualified students. A non-disclosure agreement is required.

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