Job Title: Chemical Engineering Intern

POSITION SUMMARY

Applied Bioplastics is a startup working to mass produce affordable biobased plastics solutions using natural fibers in conventional and biobased polymers.
The chemical engineering intern will work with R&D and company executives to design systems to enable scale up of production of pelletized bioplastic feedstock.

Duties

- Tasks may include preparing drawings and assisting with the design of process systems to support various unit operations including but not limited to, chemical treatments, separation, crystallization, evaporation, filtration, drying
- Support development of new formulations for thermoplastic and thermoset applications and suggest scale up routes
- Works in a team environment to meet project goals, under direct supervision of R&D head and management
- Preparation of system design, piping and instrumentation diagrams (P&ID's), and coordinating design with other disciplines
- Develop process specifications for custom designed equipment, such as pressure screens, pressure vessels, driers, heat exchangers, utility systems and other custom required equipment
- Participates in planning, cost development, and scheduling for assigned projects
- Perform other tasks assigned

Requirements

- Education and Experience Pursuing a Bachelor's or Master's degree in Chemical Engineering from an accredited university or similar
- Basic knowledge of polymer science is required; any projects done in polymer science or modification is a plus
- Good understanding of reactor designs and pressure vessels
- Foundation of knowledge in both inorganic and organic chemistry
- Effective written and verbal communication skills
- Ability to solve problems using sound engineering judgment, creativity, and innovation
- Strong work ethic and motivation to learn
- Passion for the environment and doing social good with science