**Request Form for Senior Design Project on Heated Calendaring System**

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Rev A**

* **Project Title: Design of a heated calendaring system to process polymers & composites**
* **Is the project CONFIDENTIAL? Yes / No**
* **Pl. identify critical Design Component(s)?**

**Design & build a heated calendaring system  
Make polymer films of 300 t0 1000 micron thickness**

* **Expertize needed to address the design component (pl. circle ALL that apply)**

**Statics, Dynamics, Thermo, Fluids, Controls, K&D, Heat Transfer, Materials, FEA, …..**

**Pl. add anything else you feel needed. Thanks. Machine design**

* **Special software expertise needed?**

**Matlab, LabView, Algor, Solidworks, …..**

**Pl. specify if there’s anything else? Thanks.**

**No!**

* **Is Machine shop expertize needed? Yes / No**
* **Pl. mention MINIMUM Measurable Outcome(s):**

**Working prototype  
Making films of at least two polymers of at least three different thicknesses**

* **Is there any Key Performance Indicator (KPI) you plan to use to measure progress towards Measurable Outcome?**

**Design & build a heated calendaring system  
Identify & implement key process parameters  
Make polymer films of various thicknesses  
Show correlations between film thickness and controlled process parameters**