

# Undergraduate Research Position Open



The Manufacturing Innovation Center has an immediate opening within the Undergraduate Research Program. This is a paid position with the potential for a subsequent internship.

The goal of this position will be to develop the concepts for, and then flesh out, a manufacturing system (or production line) for a new product. The product in question is a small, human-habitable structure that addresses needs that are emerging as our culture and lifestyle continue to evolve.

In this project, the student will work with industry professionals and Rensselaer staff to develop the concept for a production system. The manufacturing system is expected to involve multiple work stations served by multiple industrial robots. The conceptual model will take into account the anticipated production flow, part geometry and mass, throughput, parts presentation and parts transfer between stations, among other concerns. The initial goal of the project is to produce a first-order model of the production system with sufficient fidelity to estimate overall floor space and throughput. The final goal will be to create a virtual model of the production system. Using this model, the student will produce images and videos that can be used to communicate the system concept, production flow and manufacturing process steps.

Students from any discipline and class year may apply. To apply, please contact:

Glenn Saunders  
[saundg@rpi.edu](mailto:saundg@rpi.edu)  
CII 1038  
518-276-6696



**MIC** Manufacturing  
Innovation Center  
at Rensselaer