## Accumulative Double Sided Incremental Forming Process Design Based on <u>Graduate Student Fellows:</u> Prediction and Error Models Faculty Advisors:

## Graduate Student Fellows: HUAQING REN, ZIXUAN ZHANG

JIAN CAO, WEI CHEN

June 08, 2015

## **RESEARCH OBJECTIVE**

•The objective of this investigation is to implement a systematic design scheme to enhance the dimensional accuracy and quality control of Accumulative Double Sided Incremental Forming (ADSIF) process. The toolpath parameters will be optimized for different desired wall angle utilizing a prediction model. Then, the tool compliance will be considered and compensated for the prediction so that the prediction model can be well implemented and validated by the experimental results. The heat treatment parameters and corresponding material behavior change will also be investigated in this work.

