CENTER FOR COMPUTER AIDED DESIGN AND MANUFACTURING

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Overview

State Contract	$ 442,881
Matching Funds	$7,905,917
Benefitting companies	76
Industry jobs created	0
Fac/Staff/Grad Stud/Doc	13

Technologies

- Parts on Demand Systems
- Computer Aided Design
- Computer Aided Manufacturing

Status

- Breakthrough in last 6 months to make cheaper lightweight robots
- Algorithm controls position, velocity and deflection of robot arm
- Could reduce weight of robots by a factor of ten while retaining load capacity
- Involved with PODS with URI center as part of Utah university consortium

Economic Impact

- Lightweight robots are important for space applications. (NASA & IBM are funding)
- Large equipment donation from IBM facilitating research
- Results published; copyright to follow shortly on new robot weight reduction breakthrough