Center for Engineering Design

Distinguished Center

Dr. Stephen C. Jacobsen/University of Utah/SLC, Utah

Established center in 1986. Projects include artificial limbs, drug delivery systems, physiological signal monitors, artificial kidneys, robots and microelectro-mechanical systems. Received Distinguished Center status in 1991.

Overview

Current State Contract $100,000

FY92 Matching Funds $1,866,853
Cumulative $16,579,286

Total Jobs Created 102
Industry 57
Center 45

Direct Center Spin-offs 3

Total Benefiting Utah Companies 4

License Agreements 2

Patents Applied 5

Patents Issued 36

Technologies

*Drug delivery systems

*Physiological signal monitor

*Robotics

*Microelectro-mechanical systems

*Artificial Limbs

*Artificial Kidneys

*Teleoperation

Status

*Robots with 54 degrees of freedom

*Artificial limbs now widely sold

*Working on development of miniature motor with rotor the diameter of human hair

*New contracts with Disney, Merck and Navy Dept.

*2 Licensing Agreements

*15 Research papers published or submitted nationally - 1991

Economic Impact

*Recipient of major federal grants from DARPA and NSF

*Have created 3 companies with sales totalling $15 million annually and 15% pretax profit

*Have created 109 jobs including 35 professional engineers

*New robot contract will introduce technology to Europe

*Annual funding of $3.5 million (COEP funds represent 4 to 5% of operating budget)

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