



Human Resources Conference

February 29, 2008 . Wilshire Grand Hotel
Los Angeles, California



St. Jude Medical and Cal Poly San Luis Obispo

A Win-Win Relationship

CAL POLY

 **ST. JUDE MEDICAL**

Discussion Topics

- St. Jude Medical - Who We Are
- University Relations History
- Co-Op Program
- Senior Projects
- Intellectual Property
- Distance Learning Program
- Q & A

St. Jude Medical

Who We Are



Cal Poly University Relations History

Requirements to be a Strategic SJM University Partner

- Engineering curriculum matches SJM environment
- Ability to recruit to California or Minnesota
- Willing to engage in:
 - Co-op Programs
 - Senior Projects
 - Intellectual Property
 - Master's Research Studies
 - Collaborative Research

Co-Op Program



Co-op Program

- Electrical Engineering
- Software Engineering
- Design Assurance
- Mechanical Engineering
- Research
- Materials Engineering
- Biomedical Engineering
- Operations Engineering

Senior Projects



A Sampling of Projects

- Test fixture to speed qualification test of leads
- Study of research applications in our clinical lab
- Model of the chest and cardiovascular system by rapid prototyping
- Math modeling of heart and vascular system
- Tool studies, Mechanical Engineering and Software Engineering

Intellectual Property

Distance Learning

Cal Poly Master's in Biomedical
Engineering for SJM CRMD Engineers



Master's in General Engineering with Emphasis in Biomedical Engineering Curriculum

Core Curriculum

- Engineering Requirements Analysis
- Requirements Design and Implementation
- Biomaterials
- Engineering Systems Physiology
- Micromechanics of Bone
- Biosensors
- Cardiac Pathology and Intervention
- BME Project Management
- Biomechanics
- Engineering Systems Physiology II
- Thesis

Pending courses

- BME Modeling
- BME Instrumentation
- Biocompatibility
- Medical Experimentation
- Advanced Modeling of BME Systems

Developing Courses

- BME Transport
- BME Production
- BME Signal Processing

Thank You!