OVERVIEW
The BioIsoprene™ project is a joint effort between Genencor and Goodyear Tire & Rubber Company using biological processes to produce precursor compounds for synthetic rubber manufacturing.

IES provided complete design & construction drawings for the fermenter and recovery skid installation, and provided complete Construction Manager for the installation of the BioIsoprene recovery skid.

PROJECT DETAILS
- Retrofit existing lab spaces to allow the installation of several fermentation vessels with chemical feed and controls units
- Install sample recovery hood
- Design and install abatement system
- Design and install isothermal piping collection and distribution system to prevent condensation
- Design classified area electrical services for new power feeds and dedicated transformer devices
- Coordinate all phases of design, permitting and construction
- Extensive and Complex PHA team support

IES SOLUTIONS
- Facilitated initial Process Hazard Analysis (PHA) study to establish the basis of design and controls.
- Provided EH&S Construction Safety
- Negotiated with City for permit issuance on this difficult to permit installation, the first of its kind in Silicon Valley
- Assuming GC role achieved a savings of 25% off construction costs
- Precision placement of cast-in-place anchors to match recovery tower footings from an international vendor, allowed complex dual crane lift install to proceed without delays and rework.
- Coordinated tie-ins that eliminated shutdowns and process interruptions
- Sizing and selection of Isoprene abatement unit

LOCATION
Palo Alto, California

TEAM (PARTNERS)
Architect: Oculus Architects
Structural: Rivera, Inc.

PROJECT DURATION
Design & Permit: 16 months
Construction: 2 months

PROJECT VALUATION
$1,000,000 - $5,000,000

ABOUT IES
Integrated Engineering Services (IES) is an established firm providing innovative and cost-effective solutions to meet your complex engineering, design and operational needs.

When experience, knowledge and innovation matter most.

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