

Fred Jacob, CIPE, VE, Administrator/Value Engineer

Fred Jacob has over 20 years of experience in the design of HVAC, plumbing, and fire protection systems for healthcare facilities. He has been a project engineer responsible for all phases from design through construction on numerous hospital projects. Most recently, he has been responsible for value engineering on all of the firm's projects, checking for constructability, reviewing bid submittals and construction administration.

Professional Experience:

- *Apollo Lanka Hospital*, Colombo, Sri Lanka, New Medical Center in India and Sri Lanka.
- *Akshaya Apollo Hospital*, Ahmedabad, India, New Medical Center in India and Sri Lanka.
- *Kaiser Oakland Medical Center*, Complete Remodeling of the Existing Chilled and Hot Water Systems and Provision of New Central Plant, approximately 1,300 tons of refrigeration and 30,000 MBH of heating, Oakland, CA.
- *UC Davis Medical Center*, Tower II and South Addition, \$120 million construction cost, Sacramento, CA.
- *UCSF Medical Center*, Hepatology Laboratory Remodel and Dermatology Laboratory, San Francisco, CA
- *Chiron Corporation*, Central Utility Plant, Master Plan, Tissue Culture Laboratory and Hazardous Material Storage, Emeryville, CA.
- *Kaiser Berkeley Regional Laboratories*, 130,000 sq. ft. of Laboratory Space Remodel and Additions, Berkeley, CA.
- *San Mateo County Health Center*, Hospital Expansion, \$85 million construction cost, San Mateo, CA.
- *Stanislaus County*, Hospital Expansion, \$35 million construction cost, Modesto, CA.
- *Community Hospital of Monterey Peninsula*, New Central Plant and Maternity Department Remodel, total construction cost \$12.5 million, Monterey, CA.
- *Kaiser Stockton Medical Center*, 208,000 sq. ft. of Medical Office Building, Ancillary Services and Central Plant, Stockton, CA.
- *Kaiser South Sacramento Medical Center*, 173,000 sq. ft., Medical Office Buildings, and Central Plant Relocation, \$19.6M construction cost, South Sacramento, CA.
- *Kaiser Santa Teresa Medical Center*, 40,000 sq. ft. Medical Office Building, San Jose, CA.
- *Kaiser Roseville Medical Center*, 40,000 sq. ft. Medical Office Building, Roseville, CA.
- *Kaiser Vallejo Medical Center*, 20,000 sq. ft. Medical Office Building, Vallejo, CA.
- *Kaiser Redwood City Medical Center*, 10,000 sq. ft. Medical Office Building, Redwood City, CA.
- *Veteran Administration, Seattle*, 505-bed patient rooms, eight operating rooms, 12 minor surgery rooms, spinal cord injury, supply, process, and desterilizing and all the supporting laboratory departments, oral surgery, morgue, ambulatory care, and intensive care, Seattle, Washington.
- *Veteran Administration, San Francisco*, Complete remodel of a 150,000 sq. ft. medical office building including emergency care, dental, minor operating rooms, supply, process, and desterilizing, and data processing San Francisco, CA.
- *Veteran Administration, Palo Alto*, Remodel of 50,000 sq. ft. of patient rooms, laboratories, spinal cord injury, and partial isolation rooms, Palo Alto, CA.
- *Saint Joseph Hospital*, 40,000 sq. ft. medical office building and remodel of four surgery rooms, Eureka, CA.

Publication:

Fred Jacob's article on mechanical engineering was published in Handbook of Utilities and Services for Building, "Seismic Protection". He is chairman of the Technical Committee with ASHRAE and ASPE to publish a handbook of hot water heating systems. Fred Jacob has served as President of American Society of Plumbing Engineers (ASPE) San Francisco.

Education:

BS, Mechanical Engineer 1975 - California Polytechnic State University, Pomona, CA.

Registration:

Fred Jacob is certified in plumbing engineering (CIPE), and in Value Engineering (VE).