

ENGINEER - MOTION ANALYSIS CENTER

Shriners Hospitals for Children Northern California

Shriners Hospitals for Children-Northern California, the region's foremost provider of specialized treatment for pediatric orthopaedics, spinal cord injuries, burns and reconstructive plastic surgery, is seeking a PhD level Engineer to work in our Motion Analysis Center (MAC).

This individual provides technical oversight of the measuring and computing equipment in the MAC and plans for the development of new measurement and analysis services as warranted by developments in the field of quantitative motion analysis and patient care needs in the hospital. This person instructs MAC staff on measurement technology and technical equipment operation for studies performed in the MAC and leads development of biomechanical coding. In conjunction with the MAC Medical Director, the engineer develops projects that enhance the quality of data collection and interpretation, answer clinical questions, improve patient care, or document treatment outcomes. The engineer works with Orthopaedic Surgeons and Physiatrists associated with the Cerebral Palsy and Myelomeningocele Program, Sports Medicine Service, and Spinal Deformity Service to define research initiatives and directs the technical activities of these projects. The engineer provides education in areas of expertise to hospital staff, fellows, residents and medical students in appropriate forums.

Requires demonstrated knowledge of and experience with Visual 3D coding and biomechanical model development, and MATLAB coding. Must have previous MAC experience to include operation of 3D motion capture systems, force platforms, EMG acquisition devices and the ability to diagnose problems with MAC instrumentation systems. Knowledge of statistics is preferred.

The MAC seeks an energetic, team-oriented individual who wants to make a difference and is committed to supporting patient care, education of trainees, and clinical/biomechanical research in quantitative motion analysis.

SHCNC offers a competitive salary and benefit package, including continuing education and professional development opportunities. Other considerations include, free parking, team approached interdisciplinary care, friendly environment and the satisfaction that our patients are receiving the best care available.

Please submit resume to: Human Resources, 2425 Stockton Blvd, Sacramento, CA 95817, fax (916) 453-2388, e-mail ncal.jobs@shrinenet.org, or apply online at <http://www.shrinershospitalsforchildren.org>. EOE/Drug Free Workplace.