

# Biomedical Engineering

**Biomedical engineering** provides an important common link between medicine and engineering disciplines. At Frazer-Nash Consultancy we combine the design and problem solving skills of engineering with medical and biological understanding to provide solutions to real world problems. Our diverse blend of engineering skills is well matched to the demanding multidisciplinary requirements of our biomedical clients.

We take a holistic view of a customer's requirements and apply a range of engineering skills to develop innovative solutions and mitigate risk. Combined with our Systems Engineering approach, this ensures a robust through-life solution is achieved and ultimately improves the business output for all Stakeholders.

## OUR SERVICES

### Design Services

- Concept Design and Innovation
- Mechanical System Design
- Structural Design and Analysis
- Process Optimisation

### Analytical Services

- Dynamic Analysis
- Noise and Vibration
- Control System Design
- Software Development
- Fluids and Heat Transfer

### Project Support Services

- Programme Management
- Safety and Environmental
- Reliability and Maintainability
- Supportability Engineering
- Risk Management

### Systems Engineering

- System Requirements
- Decision Support
- Cost-Capability Assessment
- Concept Studies
- Technology Development

## OUR EXPERIENCE

- ▶ Novel rehabilitation equipment design
- ▶ Ambulance assistive device design
- ▶ Wheelchair monitoring
- ▶ Spinal injury modelling
- ▶ Drug delivery
- ▶ CPAP device design
- ▶ Impact injury assessment
- ▶ Plume dispersal
- ▶ Orthopaedic implants
- ▶ Respiratory devices
- ▶ Lung injury modelling
- ▶ Accident simulation

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