



IMAR's multi-disciplinary team has an international reputation for researching all aspects of motion analysis in a unique designated site.

Institute of Motion Analysis and Research (IMAR)



Footwear biomechanics



Sports biomechanics laboratory

Further information

To find out what IMAR can do for you contact Professor Rami Abboud.

T: 01382 496332
E: r.j.abboud@dundee.ac.uk

Visit the website at:
www.dundee.ac.uk/orthopaedics/imar

Research & Innovation Services

To find out more about other areas of academic expertise at the University of Dundee contact:

T: 01382 384664
E: research@dundee.ac.uk

www.dundee.ac.uk/research/

IMAR expertise focuses on important aspects of our daily activities: posture, movement and ergonomics with an emphasis on sports and disability. Facilities consist of five motion laboratories, including a sports biomechanics laboratory, used for both clinical and research work.

Current projects

1. Clinical gait analysis consultancy service for orthopaedic related problems.
2. Clinical foot pressure analysis service for lower limb related biomechanical problems.
3. A study of pain relief after total knee replacement.
4. A collaboration with various industry and health board partners for the improvement of lower limb joint replacements outcomes.
5. Collaboration/consultancy with IMSAT for the ergonomic evaluation of new surgical tools using our high-tech motion capture facilities.

Funding

Funding is mainly through our postgraduate teaching income, research grants and consultancy.

Opportunities

IMAR is now one of the best equipped motion institutes in the world with an international reputation as confirmed at a recent meeting hosted in Dundee in July 2008. This will allow the opportunity to forge new links for collaboration locally, nationally and internationally.

Expertise:

- Gait analysis
- Foot pressure analysis
- Sports and footwear biomechanics
- Running shoes and football boots evaluation and design
- Bike saddles assessment and design
- Cycling and golf biomechanics
- Ankle prostheses evaluation and design
- Artificial limbs
- Wheelchairs and seating
- Orthotics, Prosthetics and Implants
- Ergonomics
- Equine saddle evaluation, jockey posture and pressure
- Laparoscopic instruments
- CAD/CAM
- Forensics

