

Name & email supervisor(s):

Dr Jade Kettlewell

Length and dates of internship:

- 140 hours, which can be completed full or part-time based on applicant's availability.
- Flexible working can be accommodated as long as intern completes the agreed hours.
- Internship can start on 1st June 2024 and should be completed by 30th September 2024.

Host department:

Faculty of Medicine & Health Sciences, University of Nottingham

How will the internship be conducted:

- ☐ In person at the university
- ☐ Virtual/ from home
- ☒ Both are possible, depending on preference of student

Title internship project:

Scoping review of smart technologies to support the rehabilitation journey of children and young people following traumatic injury.

Summary of the internship project: *(max 250 words, can include hyperlinks to further information)*

Trauma is a leading cause of morbidity and mortality in children and young people (CYP) in the UK. The opening of paediatric major trauma centres (MTCs) has increased survival rates, however it means more CYP are living with the lasting effects of injury, often requiring long-term rehabilitation. Injuries (neurotrauma, spinal trauma, thoracic trauma etc.) can cause complex and long-lasting effects including physical, cognitive, emotional, social and behavioural problems.

This will likely be a confusing time for families, and may be a child's first experience of acute care. It is therefore important to provide necessary support and information to help them understand what is happening and what onward care and rehabilitation will involve. There is currently limited research into what smart technologies exist to support CYP and their families in their 'journey' from traumatic injury to recovery.

To address the gap, this project will involve conducting a **scoping review** of smart technologies to support CYP and families post-discharge from hospital with a traumatic injury. This work will inform a future grant application to develop a smart technology intervention to support CYP/families following major trauma.

The intern will be asked to complete the following:

- Help to develop a search strategy and conduct searches
- Screen identified articles for inclusion
- Extract data from included articles and synthesise findings in tables

The intern will be supported by the supervisor throughout and additional support will be sought from other researchers should there be a large number of articles to screen/extract data from.

Learning objectives:

- To understand how to develop a scoping review search strategy.
- To learn how to conduct a search using different databases and export articles for review.
- To develop screening tools and gain experience screening articles for inclusion.
- To gain experience exporting data from included articles and summarise for publication.
- To develop team working skills and how to communicate with other academics.

Any further information:

Those with an interest in paediatric research/clinical practice and/or major trauma are encouraged to apply.

This project will provide the intern with the opportunity to develop scoping review experience, which will be a useful skill for their future career in academia or in clinical practice.

This review will be submitted for publication following completion and provides an excellent opportunity for the student to gain authorship and experience of being involved in manuscript preparation.