



*Helping you get back to what you love.*

## **Research Fellowship**

The Orthopedic Research Fellowship program began in 2003 and is a 6 months to one year commitment. Fellows participating in our program work directly with our research team and faculty on a number of ongoing studies. Research opportunities exist in clinical trials, outcome studies, microvascular surgery and biomechanical research.

Researchers will have the opportunity to be involved with writing and editing manuscripts in addition to presenting their research at highly regarded national conferences.

### **Objectives:**

1. To introduce critical topics in orthopedic research and orthopedic traumatology.
2. To identify legal, ethical, and regulatory aspects of research.
3. To acquire basic knowledge of protocol development including literature searches, research design, statistical analysis, and interpretation of results.
4. To participate on an interdisciplinary research team and successfully implement studies.
5. To identify funding opportunities and develop grant writing skills.
6. To write up study results and/or review articles for publication, and to disseminate findings through poster and podium presentations. A minimum of four submissions for publication is expected each year of the fellowship.

#### Objective 1

- Bi-monthly meetings with orthopedic mentor
- Attendance at weekly orthopedic rounds
- Attendance at morning fracture conferences
- Attendance at one or more orthopedic conferences

#### Objective 2

- Completion of institutional review board training
- Completion of HIPAA training
- Participation and training in regulatory aspects related to protocol development and implementation of drug and device studies.

#### Objective 3

- Bi-monthly meetings with research mentor
- Attendance at intensive seminar in basic/intermediate statistics
- Attendance at seminar focused on critical review of research literature and evidence based practice

- Training in literature search techniques for online databases, including MEDLINE, CINAHL, PsycINFO and PubMed
- Introduction to outcomes research and specifically strengths and limitations of commonly used orthopedic outcome measures e.g DASH, SF-36, SMFA

#### Objective 4

- Responsibility for one or more active research studies including informed consent, subject enrollment, data collection, subject follow-up, management of institutional review board paperwork
- Responsibility for trauma database management

#### Objective 5

- Attendance at grant identification and grant writing seminar
- Participation in meetings with the Sponsored Programs and Research Organization

#### Objective 6

- Writing up results of projects and revising papers for publication
- Assisting mentors with preparing papers and book chapters for publication
- Mining registries and databases for original research studies

### **Schedule:**

The orthopedic trauma fellow is expected to spend his/her time in research 4 days per week and the other day split between the operating room and clinics.

### **Board Rounds:**

Morning X-ray rounds begin at 6:50 a.m. Monday, Tuesday, Thursday, and Friday. During X-ray board rounds, the on-call residents present the cases that were treated during the previous 24 hours. The orthopedic trauma fellow will be encouraged to comment on treatment options, reduction methods and relevant literature related to these cases.

### **Conferences:**

Didactic conferences take place at the University of Colorado Wednesday mornings from 7-9 a.m. The fellow is expected to participate in grand rounds, the trauma core resident curriculum, the summer anatomy course and mortality and morbidity conference. Fellow assignments will be made by the Trauma fellowship director.

## **Research:**

The orthopedic trauma fellow must complete at least one publishable research project. Fellow will have the support of a full-time MD, PhD and research assistants. Further research; as well as, grant writing is encouraged and will be supported.

## **Program Statistics:**

Director: Joshua Parry MD.

University Affiliation: University of Colorado Health Sciences Center

Hospital size: 500 beds

Length of fellowship: 1 year

Fellowship positions: 1

Stipend: Self funded

Full-time Orthopaedic Trauma Faculty: 3

Trauma Admissions/year: 2,025

Emergency Department Encounters/Year: 46,423

## **Qualifications of Applicant:**

All candidates for this Research fellowship position must be graduates of approved residency programs or about to graduate and must check the criteria highlighted in the below link