Student Summer Scholar Program

Division of Orthopaedics, Children’s Mercy Hospital Medical, Nursing and Allied Health Sciences

Purpose. Children’s Mercy Hospital has generously funded a summer scholar program for health science students to do research with orthopaedic staff and faculty in the Division of Orthopedic Surgery. The purpose of this program is to address important questions that affect the health of Children’s Mercy patients and to introduce promising undergraduates, medical students, nursing, orthotics, OT and PT students to the fields of pediatric orthopaedics, & pediatric rehabilitation.

Goals.

- Provide a quality experience early in the student’s career.
- Provide mentorship with an academic staff member.
- Assist the student to enter competitive health profession schools and residencies that may prepare them for a career that focuses on helping children with orthopaedic conditions and special needs.
- Involve students to help answer real questions that may improve the health of the patients cared for by our clinical staff.
- Retain and develop our professional staff by providing assistance to accomplish important research projects.
- Encourage interdisciplinary collaboration and research among our professional staff.

Eligible Students. The following are eligible: medical, nursing, PT, OT, orthotics, prosthetics, speech, and psychology, and graduate students in such fields as nutrition. Undergraduate students are also eligible if they submit a competitive proposal and have a specific research mentor identified.

Mentors. The student will identify a mentor who is on staff at Children’s Mercy Hospital in the Division of Orthopaedics. The project will be a collaborative effort between the student and the mentor. The mentor will need to complete the Mentor Survey: Student Research Experience (non-credit) form.

Project Time Frame. The scholarship can be spread out during the academic year depending on the project and time. Generally, at least 20 hours/week is required or a comparable amount of time during the summer between May 15th and August 15th.

Funding. The Division of Orthopaedics has established funding. This payment is intended for students who devote at least 20 hours per week for the three months of the summer or the equivalent spread throughout the following academic year. The summer scholar will be a short-term employee of Children’s Mercy Hospital and will receive payment per hospital policy.
Recruitment. Announcement and information regarding the “Division of Orthopaedics Student Summer Scholarship” will be distributed through the various schools of the Health Sciences. Orthopaedic Division Research website will have description of the scholarship program.

Application Deadline. We will accept application before December 15th deadline, prior to your summer experience. Applicant will submit curriculum vitae as their application, to Julia Leamon, MSN, RN, Clinical Research Coordinator, Division of Orthopaedics, at Children’s Mercy Hospital. Notification of acceptance will be announced January 15th of the summer scholar year.

Mentorship. All student scholars will have a mentor who is on staff in the Division of Orthopaedics. We strongly encourage you to identify a faculty mentor who is willing to work with you during the summer or period of the project(s). All student scholars accepted to the program will be assigned a faculty mentor if you have not already made this arrangement. Students will be assigned to existing projects. However, you may work with your mentor on new projects as well. A project should address the health needs of the CMH population. It may be a clinical project, basic science, anatomical research or related to public health and health policy. Projects that involve more than one discipline at CMH are encouraged and will receive priority consideration. New projects are reviewed by the Orthopaedic Division Research Committee for scientific quality and use of Orthopaedic Division resources before submission for IRB approval. If you will be working on a new project, we STRONGLY encourage you to do this immediately after acceptance into the program so that IRB approval happens before summer.

Project Approval. The Orthopaedic Division Research Committee will review submitted research project proposals. They will send recommendations of improvement to consider within one week of the submission. Summer Scholar projects will be submitted to the IRB for review by April 1st of each year.

Evaluation and submission. The project will be completed by the student and mentor and submitted to the Orthopaedic Division Research Committee. The project must be completed to the extent that it is submitted as an abstract for presentation to a scientific meeting and a manuscript prepared and submitted for publication. We encourage the student to submit their project and abstract to a national meeting such as the Section on Orthopaedics of the American Academy of Pediatrics National Conference and Exhibition, which occurs in October. This particular meeting has a $1000 award for the best Young Investigator in Training paper.

Revised 2/7/13, rms 2/15/14, jl 7/19/16,  rms/jl  11.23.16.  rms  1.31.17
CMH Orthopaedic Summer Research Scholar Application
(Deadline is December 15, before summer session)

1. Curriculum vitae with the following information:

Full name
Date of birth
Degrees
Email address
Cell phone
Address
US Citizen or Permanent Resident?

Medical School
Name of Medical School
Address
Contact Person
Phone
Fax
Email.
Date started
Date (will be) completed.
Current year
Medical School GPA

Education
Undergraduate Institution
Address
Undergraduate GPA
MCAT Score
Dates attended.
Degree
Major

Additional Post Graduate Work (MPH, MS, MBA etc)
Graduate Institution
City/Date
Dates
Field of Study
Level Completed

Research Experience
Have you had past experience in clinical research?
If yes describe your work. (Mentor, name of project, hypothesis, Methods, results, conclusion, where presented and published)
2. Transcript of current or recent medical school or other health profession student program sent directly to rmschwend@cmh.edu

3. 400 word or less description why you are interested in this summer scholar program. Include future goals short and longer term.

4. Name of reference, with contact information (address, email, telephone) we can contact. No letter is necessary unless we request.

I certify that I have provided accurate information in this application, that the writing samples and other materials submitted as my own are indeed my original work, and I authorize the verification of my credentials for admission. Accordingly, I understand and agree that any misrepresentation or omission of facts in my application will justify the denial or the rescission of admission.

_______________________________________                   ______________________
Applicant signature        Date

Rms 2.3.17
Announcement for Website

Children’s’ Mercy Hospital, Division of Orthopaedic Student Research Scholarships

The Division of Orthopaedics, Children’s Mercy Hospital is pleased to announce that, through the generosity of the Children’s Mercy Hospital, student research scholarships of up to $3000 are available for the summer, May 15th- August 15th.

The purpose of the scholarship is to introduce health sciences students (medical, nursing, OT, PT, orthotics) and residents, early in their education experience, to pediatric health issues and medical research. The student is paired with a mentor from The Division of Orthopaedics, Children’s Mercy Hospital and will work with her/his mentor to design and implement a research project regarding pediatric orthopaedics or a related field of study. The student will make periodic progress reports to the Section of Orthopaedics Research Sub-Committee. It is expected that the approved project will be completed for presentation at a national meeting and be submitted for peer review publication.

Requirements for the scholarship and details for application are available from Julia Leamon, RN, MSN, CPN, Clinical Research Coordinator, Section of Orthopaedics, and Children’s Mercy Hospital. You can reach her at 816. 460.1036 or jleamon@cmh.edu. Deadline for submission of the application is December 15th of each year. Announcement of acceptance will be Jan 15th, before the summer session.

Jl 1.21.2016. rms 1.31.17
Appendix 1.

Guidelines for Student and Resident Pediatric Orthopaedics Research Project
(No more than two pages, excluding references, appendix)

A. Title: (incorporates your primary study hypothesis, do not just copy and paste your research question - it’s probably too long to be an appropriate title).

B. Investigators: Include Name of PI/faculty advisor. Decide early who is PI, first author, additional authors and corresponding author. Indicate your contact information. All studies must have an MD PI listed.

C. Introduction/background information (brief 2 paragraph introduction of the problem): Show the relevance/importance of the study by defining what we already know and don’t know to lead to the study question. Write your introduction as a logical argument for why there needs to be your study (rationale) and what our study can contribute. Ideally, when you are done with your study and writing the paper, the introduction will have been so well written that it will not have to be changed.

D. Primary Study Question/Hypothesis: Concisely state what question you are answering. Ideally, do this in one sentence. Be careful about having any or excessive secondary study questions at this stage.

E. Methods:
   1. Research study design - Basic science or clinical? If clinical - Is it therapeutic, prognostic, diagnostic, or decision analysis? Level of Evidence (1-4). Refer to this study design - based on proposed study question and availability of the resources.
   2. Is IRB needed: Full, expedited, exempt?
   3. Target population/sample: Sample size - use a number please. Specific dates of data to be used.
      a. Inclusion criteria: use a bulleted format. (How is your control population selected?) Include the disease or condition studied, classification or how will it be documented, demographic characteristics, inclusion dates.
      b. Exclusion criteria: clinical contraindications, specific signs or symptoms.
   4. Brief description of methods. If well written, needs little rewriting for the publication. Clearly written methods are essential to success of a project
   5. What data will be collected? Data to be collected needs to be very specifically stated to IRB. Method for identifying candidates, procedure for obtaining data, and type of data. All clinical studies involving IRB approval will use RedCap data base www.project-redcap.org.
a. IRB will need to see your RedCap data base with data fields. This should match exactly to what is stated on the IRB application methods section.

6. How will you analyze the data? What are you measuring? What units?

7. Statistics: Measures to be used, general design issues, sample size determination, statistical methods to be used for data analysis. What program will you use? Biostatistician in Medical Research Department, is helpful at this stage of your study. X41345.

8. What are the resources- personnel, co-investigators, consultants, money, time, equipment you will need? IRB projects need very brief budget. Some need contract. How many hours of Orthopaedic Division Research Coordinator time will be needed?

9. When will you start/complete the project?

10. How you plan to present the results of this study- i.e. presentation at specific meeting with deadlines. Anticipate publication in what journal?


__________________________________  ___________________________________
Student Signature               Faculty Mentor Signature

Written: rms 2/7/13, revised rms 2/15/14, rms 10/2/14, rms 11/1/14, jl 4/16/16. rms 1.31.17