### **RUBIN INSTITUTE FOR ADVANCED ORTHOPEDICS**



# **Limb Lengthening and Reconstruction Fellowships**

International Center for Limb Lengthening



## **Limb Lengthening and Reconstruction Fellowships**



Fellowship Director
Philip K. McClure, MD, FAAOS

Director, International Center for Limb Lengthening

Associate Director, Orthopaedic Surgery Residency Program, Sinai Hospital of Baltimore



John E. Herzenberg, MD, FRCSC, FAAOS Emeritus Faculty



Janet D. Conway, MD, FAAOS

Head of Bone and Joint Infection,
International Center for Limb Lengthening



Michael J. Assayag, MD, FRCSC Orthopedic Surgeon

The Limb Lengthening and Reconstruction Fellowship Program consists of two types of fellowships: clinical and research. Clinical fellows will acquire advanced experience to develop the knowledge, skills, and clinical judgment essential to the practice of limb lengthening and reconstruction. Research fellows will work on multiple research studies and submit several publications to peer-reviewed medical journals.

The International Center for Limb Lengthening is widely recognized for adult and pediatric limb reconstructive surgery and the treatment of a wide range of congenital, developmental, degenerative, and traumatic disorders of the upper and lower limbs. Our physicians and staff continue to innovate and transform the field of limb lengthening and deformity correction. Drs. John Herzenberg and Shawn Standard were instrumental in the development of the Precice Intramedullary Limb Lengthening System. Since 2011, the physicians and staff have created educational tools such as the Bone Ninja app, Multiplier app, *The Art of Limb Alignment* textbook, and *The Art of Limb Alignment: Taylor Spatial Frame* textbook, which are used at the annual Baltimore Limb Deformity Course (DeformityCourse.com). This international symposium has been held since 1990, and registration fees are waived for our clinical and research fellows. Fellows are also encouraged to participate in an international mission trip (details provided during orientation).

#### **Clinical Fellowship Positions**

Our physicians treat a wide range of clinical problems including limb length discrepancy (LLD), fracture malunions/nonunions, osteomyelitis, angular deformities, and congenital deficiencies. Each week, the physicians see over 50 new patients and 120 follow-up patients. Fellows will learn to determine current LLD, predict LLD at skeletal maturity, evaluate limb alignment, and analyze single and multiapical deformities. We offer three clinical positions: two focus on pediatric orthopedics and one focuses on adult orthopedics. The pediatric fellows rotate with Dr. McClure. The adult fellow will rotate with Drs. Conway and Assayag. The salary is commensurate with Sinai Hospital's PGY-7 scale.

At the end of the fellowship, the fellow should be able to competently perform limb lengthening and reconstruction surgical procedures and understand the technical aspects, indications, risks, results, prognosis, and limitations of these procedures. Per week, the physicians perform 25 to 30 surgical cases. Clinical fellows will apply external fixation and insert femoral and tibial intramedullary nails. They will also perform Gigli saw osteotomies, fixator-assisted nailing or plating, epiphysiodesis, hemiepiphysiodesis, and bone transport. Fellows will treat hypertrophic, atrophic, and infected nonunions and learn to resect necrotic bone to treat osteomyelitis. They will also correct foot deformities, including clubfoot. Our facilities include EOS Edge, standing foot CT, and gait lab.

Clinical fellows are required to collect data and produce at least one scientific paper that will be submitted to a peer-reviewed journal. They will attend orthopedic grand rounds, research meetings, and in-service training lectures. They will also help prepare for and attend weekly preoperative indications conferences.

NOTE: Because of the relatively new nature of the techniques and methodologies, ACGME has not published any guidelines for accreditation. Although this fellowship is not accredited by the ACGME, the program guidelines have been modeled after guidelines for similar programs.

#### **Research Fellowship Positions**

Research fellows are required to design studies, collect data, and produce multiple scientific manuscripts for submission to peer-reviewed journals. A research manager and coordinator, manager of academics, medical editor, medical illustrator, graphic designer, and medical photographer will assist with the research process. Fellows will also attend research meetings, research in-service training lectures, and orthopedic grand rounds. Previous research experience is required. Research fellows have opportunities to observe in the clinic and operating room. NOTE: We are unable to consider visa applicants for research fellowships.

#### For more information, contact the Fellowship Director:

Philip K. McClure, MD

International Center for Limb Lengthening Rubin Institute for Advanced Orthopedics Sinai Hospital of Baltimore 2401 West Belvedere Avenue Baltimore, Maryland 21215 USA

**E-mail:** pmcclure@lifebridgehealth.org **Web Site:** www.limblength.org/fellowships

**Tel:** 410.601.9583 **Fax:** 410.601.9576

### Limb Lengthening and Reconstruction Fellowship Application

#### **International Center for Limb Lengthening**

Rubin Institute for Advanced Orthopedics 2401 West Belvedere Avenue, Baltimore, Maryland 21215 USA E-mail: aadolph@lifebridgehealth.org Tel: 1.410.601.9276 Fax: 1.410.601.9576

Name:				
Last/Surname		First	Middl	e
Present Home Address:				
		Street Address		
City	State	Ž	Zip Code	Country
Telephone (include country code):				
, , , , , , , , , , , , , , , , , , ,		Home/Mobile	Work	
E-mail:			Fax (if available):	
Medical School:	Institution	Location		Degree and Date Conferred
Residencies/Fellowships:(use additional pages if necessary)	Institution	Location		 Dates
Compant Desitions				
Current Position:	Institution	Location		Dates
Citizenship: 🗖 U.S. 📮 Other (	enecify):		VISA/Status:	
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Position Desired:   Clinical Fello	w: Pediatric	☐ Clinical Fellow: Adult	□ Research Fellow	
Fellowship Start Date				
The fellowship typically lasts 12 mc	nthe and starts on Au	iquet 1: however follows must	ho available in July for two d	ave of mandatory orientation
Options exist to complete the orien		•	be available in July for two d	ays of mandatory offentation.
Desired Length of Fellowship:	6 months 🔲 1 yea	ar 🔲 18 months 🔲 2 ye	ars	
Preferred Dates of Fellowship:				

Please include the following with your completed application:1

- Statement of Personal and Professional Goals
- Medical School Transcript (certified copy)
- · Medical School Diploma
- Passport-Size Photo (1)
- Recommendation Letters (3) must be on official stationary (no faxes will be accepted) and mailed to the address at the end of this application
- Curriculum Vitæ (include current work status)
- · Orthopedic Residency Certificate(s)
- USMLE Scores I & II or Canadian Equivalent (if applicable)<sup>2</sup>
- Copy of ECFMG Certification (if applicable)2
- Samples of research papers (2)3
- All clinical fellows who require a visa, must be able to obtain a J1 Visa through ECFMG.



<sup>1</sup>Documents in languages other than English must include certified translations

<sup>2</sup>Item is required only for clinical fellowship applications

<sup>3</sup>Item is required only for research fellowship applications



<b>Personal Information</b>	
1. Are you able to perform the essential functions of the pe	osition without reasonable accommodations (Americans with Disabilities Act)?
☐ Yes ☐ No (please specify special accommodation	ons that you require in the "Comments" section)
2. Have you ever been convicted of any criminal charges	(other than minor traffic violations)?
	No
Too (please explain in the comments section)	
3. Are you currently using illegal drugs?	
☐ Yes (please explain in the "Comments" section) ☐	l No
4. Do you have any impairment due to current chemical defunctions of this fellowship position?	ependency/substance abuse that would prevent you from carrying out the essential
☐ Yes (please explain in the "Comments" section) ☐	ı No
5. How did you hear about this fellowship opportunity? (pl	ease check all that apply)
□ AAOS Annual Meeting	□ IPOS Meeting
□ AAOS Postgraduate Orthopaedic Fellowships Listing	<u> </u>
☐ ASAMI Meeting	☐ POSNA Annual Meeting
☐ Baltimore Limb Deformity Course	☐ Colleague
☐ EPOS Annual Meeting	☐ Other:
Applicantle Cortification	
Applicant's Certification	
I certify that all the information I have provided is complete the necessary employment eligibility documentation prior	e and accurate. I understand that any appointment will be contingent on my providing to the appointment
and measure of the second control of the sec	io tilo dippolitimonti
Applicant's Signature	
Applicant's Signature  Comments (use additional pages if necessary):	
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