



**Application:**  
**Pittsburgh Intensive Training in Hematology  
Research**  
**University of Pittsburgh**

Date: \_\_\_\_\_ Proposed starting date of fellowship: \_\_\_\_\_

Name: \_\_\_\_\_

(First)

(Middle)

(Last)

Social Security Number: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

Date and place of birth: \_\_\_\_\_

Citizenship or Visa status: \_\_\_\_\_

Home address: \_\_\_\_\_

Phone: (home) (\_\_\_\_) \_\_\_\_ - \_\_\_\_ (office) (\_\_\_\_) \_\_\_\_ - \_\_\_\_

**EDUCATION**

	<b><u>College</u></b>	<b><u>Degree</u></b>
		<b><u>Month / Day / Year</u></b>
Undergraduate	_____	/ / _____
Graduate school	_____	/ / _____
Medical school	_____	/ / _____

Honors, special training, etc.:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

<b><u>Professional Positions</u></b>	<b><u>Institutions</u></b>	<b><u>Year</u></b>
_____	_____	_____
_____	_____	_____
_____	_____	_____

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For application to the Pittsburgh Intensive Training in Hematology Research program at the University of Pittsburgh please submit the following:

- 1) Completed application form
- 2) Current curriculum vitae
- 3) Statement of Research Experience/ Current Research Interest: 1-2 page single-spaced
- 4) Statement of Training Requirement in Advanced Hematology/ Training Goals: 1 page single-spaced
- 5) Three Letters of Recommendation

INSTRUCTIONS: Please send the above information by email with the subject "PITHR Program Application 2016: Your Name" to:

Claire Hackman

Program Coordinator

clh166@pitt.edu

All documents must be created into a single document that includes: Part 1: Application; Part 2: Curriculum Vitae; Part 3: Short Essays; Part 4: Letters of Recommendation. Please save your application document as First Name Last Name PITHR 2016.



## PROGRAM SYNOPSIS – Pittsburgh Intensive Training in Hematology Research

The University of Pittsburgh School of Medicine supports a six-month training program entitled Pittsburgh Intensive Training in Hematology Research funded by the National Institutes of Health (NIH). The Program is intended for Graduate Students, Early Stage Post-docs, and Junior Faculty. The Program features initial development of a Blood-science Research Tool-kit, individually-prescribed development plan (IDP), paired mentorship teams, learning of cutting-edge methodologies in application to clinical problems, emphasis on high impact publications, and a unique opportunity to participate in large scale translational research internship in Africa.

**Blood Science Research Tool-kit:** Immersion in an initial core competency training period in hematology research including hands-on practical sessions at the University of Pittsburgh (UPitt) and a 1-week course on understanding and managing regulatory issues for human and animal research. Throughout the entire six-months, trainees will complete hands-on results oriented practical course work, choosing from a variety of Advanced Specialized Research Hematology Techniques. This intensive exposure allows the trainee to develop the elemental tools for basic and translational hematology research and biomedical research generally.

**Mentored Blood Science Research:** A six-month intensive research education experience with our translational-oriented hematology, SCD, and vascular biology mentors. The mentorship team will include a basic-science oriented faculty paired with a clinical-science oriented mentor to foster a comprehensive research education experience and training in blood science, with the necessary application to the clinical and patient environment. Training will incorporate the learning of cutting-edge methodologies that are applied to a clinical problem, leading to potentially novel therapeutic approaches or clinical studies in patients. Importantly, graduate and post doc participants who complete the program may have a unique competitive edge for a slot in our Translation Pulmonary Vascular T32 program at the UPitt.

**International Internship in Sickle Cell Disease Research:** Participants, particularly junior faculty trainees, will have the opportunity to complete up to 6-week internship to boost their training experience in patient-oriented translational research skills in SCD and other hematology disorders. It is estimated that 300,000 to 400,000 babies are born with a serious hemoglobin disorder each year; this is the most common monogenic disorder in man. Over 90% of these birth occur in low- or middle- income countries. These countries particularly those in Sub-Saharan Africa also have high prevalence of other serious red cell membrane and enzyme disorders. It is estimated that in 2012 there 207 million cases of malaria and ~627,000 deaths mostly in children in Africa. Thus, Africa is an epicenter of hematologic disorder. We will tap into emerging hematological resources in Ghana and Tanzania to enhance both the training and the career prospects of our participants who have aspirations for large-scale translational research in SCD.

**Individualized Development Plan:** We recognize that trainees will enroll with varying degrees of experience and sophistication in research methods, design, and statistics. Therefore, formal coursework will need to be individualized for each trainee.

**Evaluation:** Trainees will be evaluated by the Training Committee every 6 weeks, with input from the Research Advisory Committee twice during the six-month program, against achievement of the specific *Milestones* outlined in Program Timeline with emphasis on competence in both basic and advanced skills in hematologic techniques

**Program Leadership:**

Program Director: Solomon F. Ofori-Acquah PhD

Program Co-Directors: Mark T. Gladwin MD, Gregory Kato MD

Research Advisory Committee: Edward Chu MD, Margaret Ragni MD MPH, Linda M. McAllister-Lucas MD PhD, Steven H. Swerdlow MD

External Advisory Board: Clinton Joiner MD PhD, Mervin C. Yoder Jr. MD, Adam N. Goldfarb MD

Faculty Mentors: Enrico Novelli MD, Solomon F. Ofori-Acquah PhD, Mark T. Gladwin MD, Gregory Kato MD, Laura De Castro MD MHSc, Darrell Triulzi MD, Robert Redner MD, Patrick Pagano PhD, Jeffrey Isenberg MD, Adam Straub PhD, Shanmugam Nagarajan PhD, Prithu Sundd PhD, Grant Bullock MD PhD, Sruti Shiva PhD, Julie Makani MD PhD MRCP, Edeghongho Olayemi MBBS FWACP, Craig Byersdorfer MD PhD, Paul Szabolcs MD, Lei Yang PhD, Albert Donnenberg PhD.