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Announcing:

GHDx Course 2

**Advanced Didactic and Laboratory Training for Global Health
University of Washington and the Washington State Health
Laboratories,
Seattle, WA**

July 16-August 3, 2012 (Complete Course)

July 30-August 3, 2012 (Intensive Laboratory Training only)

Application deadline: April 1, 2012

The Center for Point-of-Care Diagnostic for Global Health (GHDx Center), a collaboration between PATH and the University of Washington, and part of the Point-of-Care Technologies Research Network funded by the NIBIB/NIH, invites you to apply to the second annual GHDx Course 2.

This course is open only to individuals who have completed the introductory course (2008 through 2011), Point-of-Care Diagnostics for Global Health, GHDx Course 1.

The goals of the complete three-week Course 2, Advanced Didactic and Laboratory Training for Global Health, are to provide advanced cross-disciplinary training on the clinical, epidemiologic, and diagnostic aspects of diseases impacting global health, with an emphasis on the implementation of point-of-care diagnostic tests in low-resource settings. In weeks 1 and 2 (July 16– 26), participants are enrolled in the Principles of STD and HIV Research, a course offered in Seattle for the past 18 years. Although this course will focus on STDs and HIV, the principles outlined in this course are applicable to the study of other infectious diseases. The objectives of this course are:

- To introduce current and future investigators to critical research areas and questions in the fields of STDs and HIV.
- To expose investigators to the research techniques and tools needed to conduct scientifically sound studies, including study design, experimental approach, production of instruments for data collection, and methods for data analysis.
- To introduce trainees to the fundamentals of different disciplines involved in STD and HIV research in order to foster research collaborations.
- To discuss strategies for successfully competing for research funds and for publishing one's work.

More information, as well as a detailed syllabus, for the Principles of STD and HIV Research course is available at <http://depts.washington.edu/pshr/registration.html>.

An operations research mini-course, focusing on the feasibility, acceptability, and effectiveness of service delivery strategies in a variety of health programs worldwide will be offered July 27. The aim of this mini-course is to improve program managers' and researchers' understanding of the theory and methodology of operations research, particularly for its use in developing countries. For more information, please visit: <http://depts.washington.edu/cfas/training/HSSR/scientificprog.shtml>.

In week 3 (July 30–August 3), the course focus will be hands-on POC testing, the principles of laboratory diagnostics, appropriate selection of gold-standard and POC diagnostic tests in diverse settings, implementation of appropriate quality control systems, and assessment of their performance in low-resource settings. The aims of the coursework in week 3 are:

- To provide an understanding of the principles of a wide range of test procedures and formats for the diagnosis of diseases of global significance, with an emphasis on point-of-care diagnostic tests for use in low-resource settings.
- To understand the strategies and challenges encountered in developing a POC test for low-resource settings.
- To provide hands-on training on the performance of POC tests.
- To gain an understanding of the importance of, and procedures for, quality assurance and quality control.
- To provide participants with the tools needed to evaluate the performance of these diagnostic tests in diverse settings.
- To promote the exchange of the experience and expertise among course participants and establish collaborations.

While this course will focus primarily on STDs, TB, malaria, and HIV, the experiences obtained will be applicable to the performance and understanding of laboratory diagnostics in general.

Note: In deference to participants not able to devote three weeks to a training course in Seattle and/or those less interested in didactic training in STD/HIV research and operations training, the first two weeks of this course are optional. Thus, participants may opt to focus on the intensive laboratory training course, offered July 30-August 3, and apply for this portion of GHDx Course 2 only. Please indicate if you are applying for the complete course **or** the laboratory training portion only on your application form.

Who should attend:

Participants who successfully completed GHDx Course 1, Point-of-Care Diagnostics for Global Health (2008-2011) are eligible to enroll in GHDx Course 2, Advanced Didactic and Laboratory Training for Global Health. Course 2 will be particularly applicable to:

- Researchers interested in development and/or implementation of POC devices.
- Clinicians involved in health care implementation in low-resource settings.

- Directors, supervisors, and teachers in clinical laboratories in low-resource settings.
- Public health officials (US and international) overseeing laboratory testing.
- Participants from academia and industry interested in the application of POC testing to improve health care in low-resource settings.

Tuition, travel, and housing costs

Once a candidate is accepted into the course, the GHDx Center will pay expenses necessary for that person to attend, including:

- Round-trip, coach-class airfare to Seattle.
- Round-trip transportation between SeaTac airport and the University of Washington (UW).
- Lodging for one person at the UW dormitories in double-occupancy rooms (single-occupancy may be available on a first-come, first-served basis)
- Meals (breakfast, lunch, and dinner) at the UW cafeteria or other sites, as appropriate.
- Course tuition.
- Transportation to course-related activities.

Accommodations

As with Course 1, University of Washington dormitory accommodations, a 10-minute walk to the course site in weeks 1 and 2, will be provided to course participants. Transportation to the laboratory training offered in Course 2 will be provided. Dormitory housing is an economical and convenient choice for lodging, which includes your room, a shared bathroom, and a meal card for meal purchases at designated University dining locations (\$20/day) and will be provided as part of the course. Detailed on-campus lodging information will be included in the course confirmation letter.

For more information, please contact Ms. Christine Makela at: 206-897-5351 or cem3@u.washington.edu.

While participants may choose to pay for housing at local hotels; there is no monetary compensation for those who choose off-campus housing. Please inform us if you choose to stay at a hotel so that we may cancel your reservation in the dormitory.

University of Washington disability accommodations: Contact the Disabilities Services Office at least 10 days in advance at (206) 543-6450 (voice); (206) 543-6452 (TTY); (206) 685-3885 (fax), or E-mail access@u.washington.edu.

Course directors

Pat Totten, PhD
 Karen Stephens, PhD
 Shelley Lankford, BS

Travel, accommodation, and general course information

Christine Makela

Voice: 206-897-5351

Fax: 206-897-5363

Email: cem3@u.washington.edu

Course location

University of Washington Campus (weeks 1 and 2, Seattle, WA
and

The Washington State Department of Health (week 3),
Public Health Laboratories, 1610 N.E. 150th Street, Shoreline, WA

Course sponsors

National Institute of Biomedical Imaging and Engineering (NIBIB)

The Department of Global Health, University of Washington, Seattle, WA

Participating organizations

- University of Washington, Departments of Global Health, Laboratory Medicine, and Medicine (Division of Infectious Diseases), Seattle, WA
- PATH (Program for Appropriate Technology in Health), Seattle, WA
- Washington State Health Laboratories, Seattle, WA

For an application form, more information about the course, and an example syllabus from GHDx Course 2 offered last year, please visit:

<http://www.path.org/dxcenter/training-developers-and-users.php>.