

## ICAP Next Generation Internships 2020



ICAP's Next Generation Program is a multidisciplinary training initiative that provides students with hands-on internship and fellowship opportunities in New York and around the world.

Through the Next Generation Program, students engage in the design, implementation, and evaluation of ICAP-supported programs while working side-by-side with global health experts. Students will learn about health care delivery systems in low-resource settings while working on a discrete programmatic project with ICAP team members. The Next Generation interns spend two to six months engaged in the design, implementation and/or evaluation of ICAP-supported programs in Africa, Asia and New York under the mentorship of ICAP staff.

**This opportunity is open to students enrolled in one of the following schools at the Columbia University Irving Medical Center:**

- The Mailman School of Public Health
- The College of Physicians and Surgeons
- The College of Dental Medicine
- The School of Nursing

### **Application Components**

- 1) Current resume
- 2) Statement of interest
- 3) Two letters of recommendation
- 4) A ranking of country/project preferences

All application components should be emailed as PDFs to [icap-nextgen@cumc.columbia.edu](mailto:icap-nextgen@cumc.columbia.edu). Applicants are responsible for confirming receipt of all materials.

**All application components are due by Monday February 10, 2020 by 11:59 PM**

[You can find more information about the Next Generation Internship Program at this link.](#) If you have any questions, please contact [icap-nextgen@cumc.columbia.edu](mailto:icap-nextgen@cumc.columbia.edu)

## ICAP Next Generation Internships 2020

Location, Country	Duration	Preferred Timeframe	Preferred Skills	Project Description
Mbabane, Eswatini	3 months	January-April	-Experience in epidemiology, and/or biostatistics	Review and analysis of Population-Based HIV Impact Assessment
Mbabane, Eswatini	3 to 6 months	June-December or January-April	-Experience in epidemiology, and/or biostatistics	Quality assurance of clinical trials of pre-exposure prophylaxis
Harlem, New York	3 to 6 months	June-August or December	-Experience in research and data management	Implementation and data management of clinical trials and community outreach
ICAP Headquarters, New York	3 to 6 months	May to July or November	-Experience conducting health-related research including qualitative data collection and analysis -Experience with N-Vivo or Dedoose data analysis platforms	Data analysis of prevention interventions, including pre-exposure prophylaxis (PrEP) for female sex workers
Maseru, Lesotho	6 months	June-December	-Experience in epidemiology, and/or biostatistics	Data analysis and assessment of Health Information System
Maseru, Lesotho	6 months	June-December	-Experience in epidemiology, and/or biostatistics	Expanding and strengthening the Lesotho Strategic Information project
Maputo, Mozambique	3 months	June-August	-Portuguese preferred -Experience conducting literature reviews -Understanding of qualitative analyses -Experience working in environmental public health	Post-disaster review and situational analysis of response to disasters with a focus on management of chronic diseases
Dushanbe, Tajikistan	3 months	June-August	-Basic Russian preferred	HIV Testing, ART initiation, retention and adherence focusing on migrant labor
Dar es Salaam, Tanzania	3 to 6 months	June-August or December	-Demonstrable knowledge of basic statistical measurements and descriptive statistical methods -Basic data analysis skills (preferably using SAS or STATA)	Monitoring and data management for bio-behavioral survey of key populations

**ICAP Next Generation Internships 2020**

			<ul style="list-style-type: none"> <li>-Prior experience living or working in sub-Saharan Africa</li> <li>Experience with study monitoring (data quality assurance, adherence to protocol, etc.)</li> <li>-Willingly to travel by road with a maximum distance of about 300 miles.</li> <li>-Experience working with KP including people who inject drugs (PWID) and men who have sex with men (MSM).</li> </ul>	
Lusaka, Zambia	3 to 6 months	June-August or December	<ul style="list-style-type: none"> <li>-Demonstrable knowledge of basic statistical measurements and descriptive statistical methods</li> <li>-Basic data analysis skills (preferably using SAS or STATA)</li> <li>-Prior experience living or working in sub-Saharan Africa</li> <li>-Experience with study monitoring (data quality assurance, adherence to protocol, etc.)</li> <li>-Willingly to travel by road with a maximum distance of about 300 miles.</li> <li>-Experience working with KP including people who inject drugs (PWID) and men who have sex with men (MSM).</li> </ul>	Monitoring and data management for bio-behavioral survey of key populations



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## ICAP Next Generation Internships 2020

### Practicum Opportunity: Eswatini



**Internship Focus** Review and analysis of Population-Based HIV Impact Assessment

**Duration** 3 months (preferably January to April)

**Location** Mbabane

### ICAP Eswatini Project Description

ICAP is currently working in Eswatini as a major supporter of projects focusing on prevention of maternal-to-child transmission (PMTCT), early infant diagnosis, HIV drug resistance surveillance, laboratory improvement, and ongoing training of health care workers, epidemiologists, and researchers. Within this work, ICAP has conducted national HIV population-based surveys to obtain country level data on the impact of these interventions. The Eswatini Population-based HIV Impact Assessment (SHIMS3 2020) is the second nationally representative survey with a goal to assess the coverage and impact of Eswatini's response. The objectives are to measure HIV incidence, HIV treatment (ART) uptake, viral load suppression among a nationally representative sample of people living with HIV (PLHIV) who are 15 years and older, and children 0-14 years.

### Intern Activities

The practicum will support this work through data analysis and publication activities on the SHIMS3, including working with the health research training program team. Intern activities will include:

- Conduct literature reviews
- Support data analysis
- Support manuscript writing activities
- Support journal submission and response to comments



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## ICAP Next Generation Internships 2020

### Practicum Opportunity: Eswatini



**Internship Focus** Quality assurance of clinical trials of pre-exposure prophylaxis

**Duration** 3 months- January to April  
6 month- June to December

**Location** Mbabane

### **ICAP Eswatini Project Description**

ICAP in Eswatini is a major supporter of projects focusing on prevention of maternal-to-child transmission (PMTCT), early infant diagnosis, HIV drug resistance surveillance, laboratory improvement, and ongoing training of health care workers, epidemiologists, and researchers. Within this work, the HIV Prevention Trials Network (HPTN) is conducting a multi-country randomized clinical trial exploring the safety and efficacy of long-acting injectable cabotegravir (CAB LA) compared to daily oral tenofovir disoproxil fumarate 300 mg plus emtricitabine 200 mg (TDF/FTC) for pre-exposure prophylaxis (PrEP) in HIV-uninfected women. The trial will enroll about 160 HIV-uninfected women 18 to 45 years at the FLAS Mbabane health clinic.

### **Intern Activities**

The practicum will support this project through quality assurance activities for field activities including data collection and laboratory procedures. Intern activities include:

- Participate in HPTN training activities, particularly focusing on quality monitoring
- Participate in updating quality SOPS and tools
- Conduct data entry and analysis of protocol HPTN084 process data e.g. site logs, trackers etc.
- Generate and disseminate results from the above analysis
- Conduct additional DQA activities
- Contribute to development and implementation of corrective action and preventive action (CAPA) plans
- Work with staff to create a visit scheduler database



## ICAP Next Generation Internships 2020

### Practicum Opportunity: Harlem



**Internship Focus** Implementation and data management of clinical trials and community outreach

**Duration** 3 to 6 months

**Location** Harlem Prevention Center

**Desired Qualification** Research and data management experience

### ICAP Harlem Prevention Center Project Description

ICAP's Harlem Prevention Center is a hub for research and service delivery in an area of the city that has been historically underserved and disproportionately impacted by the HIV epidemic. ICAP works with local community-based organizations, community boards, political groups, religious leaders, and advocates to engage vulnerable populations in HIV testing, care, and treatment. The Harlem Prevention Center is currently conducting or will soon be conducting the following clinical research trials:

1. Safety and efficacy of injectable pre-exposure prophylaxis (PrEP) in HIV-uninfected cisgender men and transgender women who have sex with men;
2. Phase 1 clinical trial to evaluate the safety, tolerability, pharmacokinetics, and antiviral activity of combinations of monoclonal antibodies PGT121, PGDM1400, 10-1074, and VRC07-523LS administered via intravenous infusion in healthy, HIV-uninfected adult participants in the U.S;
3. Multi-center, randomized, parallel-group, placebo-controlled, double-blind Phase 3 study to demonstrate the efficacy of a heterologous prophylactic HIV-1 vaccine regimen consisting of Ad26.Mos4.hiv and a combination of an aluminum phosphate-adjuvanted Clade C gp140 and Mosaic gp140

### Intern Activities

The practicum will focus on supporting the current HIV prevention clinical research trials and one upcoming trial. Interns will also have access to other study data sets that are completed so they can develop their own analytic project of interest and/or support analysis efforts of site investigators. Potential intern activities include:

- Conduct data monitoring and quality assurance on data already collected for the study, including:
  - Review eligibility criteria of screened study participants for enrollment, including review of eligibility case report forms, source documents and informed consent forms.
  - Assist with submission of study forms to the statistical and data management center.
  - Assist with prompt review of all data queries and their immediate resolution.
  - Identify problem areas with data collection, report findings to the project's leadership, and develop appropriate corrective measures with input from the team.
- Assist in summarizing data and preparation of presentations for scientific meetings.
- Develop research questions of interest utilizing available site data from completed studies to conduct analysis and create a poster presentation for final practicum deliverable.
- Participate in community outreach activities.
- Perform informal presentations about the studies conducted at Harlem Prevention Center at support groups or community-based organizations with the community outreach team.
- Attend outreach fairs and events as well as health symposiums related to the studies' target population with the community outreach team
- Attend weekly staff meetings to discuss progress of the studies involved and research related issues
- Other duties as assigned by the Site Coordinator, and Investigators.



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## ICAP Next Generation Internships 2020

### Practicum Opportunity: ICAP Headquarters

**Internship Focus** Data analysis of prevention interventions, including pre-exposure prophylaxis (PrEP) for female sex workers

**Duration** 3 to 6 months beginning May

**Location** ICAP Headquarters, New York

#### **Minimum Qualifications**

- Completion of course P8785 Qualitative Research Methods

#### **Desired Qualification**

- Experience conducting health-related research including qualitative data collection and analysis
- Experience with N-Vivo or Dedoose data analysis platforms

### **Project Description**

ICAP has worked with numerous partners in Kenya to support the training of health care workers as well as provide comprehensive HIV services, medically assisted therapy for people who inject drugs, gender-based violence recovery services and has worked with key populations including female sex workers. Through a National Institute of Health (NIH) funded project, ICAP supported the implementation of a multi-component study designed to evaluate the effectiveness, acceptability and feasibility of an evidence-based combination prevention strategy including pre-exposure prophylaxis (PrEP) for young female sex workers (FSW) in Kisumu, Kenya, a high incidence setting where FSWs contribute significantly to the HIV epidemic. In recognition of the importance of partner dynamics in sexual transmission of HIV, IPrEP includes a small sub-study engaging male clients of young FSW in a prevention intervention. The IPrEP team collected qualitative data to broaden understanding of the needs, preferences of young FSW related to PrEP use, challenges they face in using PrEP optimally, and the resources they bring to PrEP and other prevention strategies. In total, 5 focus group discussions (FGD) with young FSW as well as in-depth interviews (IDI) with young FSW, MC, and health care providers serving young FSW in Kisumu (HCP) were completed (30 IDIs per group). Preliminary analyses of the formative data were incorporated into the design and implementation of IPrEP's adherence support strategies, and its recruitment and retention strategies. This student project will be focused on coding and conducting analysis of this data.

### **Intern Activities**

The intern will work with the study co-investigators and coordinators to develop relevant code books for each data set (FGD, FSW IDI, MC IDI, and HCP IDI) and code the relevant data. The intern will also participate in the analyses of coded data. Deliverables include coded data sets and thematic analyses. Intern activities will include but are not limited to:

- Conduct analysis of existing qualitative data from FGD and IDI conducted during IPrEP formative phase
- Participate in study team calls/meetings to share analysis progress and findings
- Collaborate on the development of manuscripts and abstracts related to qualitative data



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### Practicum Opportunity: Lesotho



**Internship Focus** Data analysis and assessment of Health Information System

**Duration** 6 months

**Location** Maseru

**Desired Qualification** Experience in epidemiology, and/or biostatistics

### **ICAP Lesotho Project Description**

ICAP has worked in Lesotho since 2005, collaborating with national governments, district health management teams, individual health facilities, educational institutions, and local non-governmental organizations to strengthen health systems. Within this work, ICAP supports the Lesotho Strategic Information Strengthening Project. This project supports the Lesotho Ministry of Health to further strengthen the Health Information System (HMIS) for collecting and reporting as well as the analysis and use of high-quality data for programing. The project goals are

1. to align data between the Ministry of Health information system, DHIS2, and the PEPFAR system, DATIM;
2. to enhance data quality within DHIS2;
3. to enhance DHIS2 for programmatic decisions.

### **Intern Activities**

The practicum will focus on assisting with data quality assessments comparing DHIS/DATIM and conducting analyses using DHIS2 platform, building and training on different DHIS2 data visualizations (tables, graphs, maps) that can be used for program planning.

Intern activities will include but not limited to:

- Conduct site visits to support quarterly MER indicator data quality verification and compare against data in the DHIS2
- Conduct routine data quality assessment and propose validation rules into DHIS2 system
- Conduct analysis of data in the DHIS2 and build and train on different DHIS2 visuals for use for programing
- Document and write up HMIS implementation challenges and lessons





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## ICAP Next Generation Internships 2020

### Practicum Opportunity: Lesotho



**Internship Focus** Expanding and strengthening the Lesotho Strategic Information project

**Duration** 6 months

**Location** Maseru

**Desired Qualification** Experience in epidemiology, and/or biostatistics

### ICAP Lesotho Project Description

ICAP has worked in Lesotho since 2005, collaborating with national governments, district health management teams, individual health facilities, educational institutions, and local non-governmental organizations to strengthen health systems. Within this work, ICAP supports the Lesotho Strategic Information Strengthening Project. This project focuses on expanding and strengthening the electronic register (eRegister) to enable the Lesotho Ministry of Health and its partners to collect and use high quality, real-time, client-level, longitudinal data for improved care and evidence-based programing. The project goals are to help strengthen eRegister and health management information system at large and assist the Ministry of Health to establish a system for collecting and using high quality data for programmatic decisions.

### Intern Activities

The practicum will focus on assisting with building program reports into the e-register to allow progress assessments on the treatment cascade as well as building in data quality checks to enhance quality of data entered into the e-register. Intern activities will include:

- Support verification of quality of data collected in the eRegister as part of the transition toward point of care use of the system
- Support routine eRegister data quality assessment and propose logic checks to be incorporated into the system
- Conduct analysis of data in the eRegister specifically building a treatment cascade report showing 90-90-90 cascades within a site
- Support visualization of data from eRegister to support programmatic decision-making
- Document and write up eRegister implementation lessons learned
- Any other activities required for smooth implementation of eRegister etc.



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### Practicum Opportunity: Mozambique



**Internship Focus** Post-disaster review and situational analysis of response to disasters with a focus on management of chronic diseases

**Duration** 3 months

**Location** Maputo

**Desired Qualifications**

- Experience conducting literature reviews
- Understanding of qualitative analyses
- Experience working in environmental public health

**Preferred Language** Portuguese

### ICAP Mozambique Project Description

ICAP Mozambique and the Earth Institute are collaborating to develop models for health system resilience focused on chronic diseases – starting in Mozambique in southern Africa. Mozambique recently suffered from two catastrophic cyclones, Idai and Kenneth, which affected more than 1.8 million people and severely damaged infrastructure and agriculture. To strengthen the country's response to future disasters, particularly with respect to the management of chronic diseases, ICAP, the Earth Institute, INS, INAM and other national partners will conduct a post-disaster review and situational analysis of areas most impacted by the recent cyclones as well as the local and national responses to these events. This will include conducting key informant interviews and focus group discussions in the summer of 2020; review of the early warning system and response plans; and distilling lessons learned and recommendations to inform future national strategies and responses. These activities will form the foundation for the development of comprehensive preparedness and response plan for resilient health systems. The work will also serve as a model to inform other countries in the region as they plan for similar threats

### Intern Activities

- Perform a literature review of methods of assessing health system resilience to acute and chronic disruptive changes
  - mapping current activities assessing climate change's impact on health in Mozambique
- Assist with key informant interviews and focus group discussions, including transcription of interviews and thematic analysis.
- Assist with writing of 6-month report on activities



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### Practicum Opportunity: Tajikistan



**Internship Focus** HIV Testing, ART initiation, retention and adherence focusing on migrant labor

**Duration** 3 months

**Location** Dushanbe with travel to another country districts and regions with overnight stays

**Preferred Language** Basic Russian

### ICAP Tajikistan Project Description

ICAP is currently working with the Tajikistan Ministry of Health to support testing, treatment, and follow-up for key populations living with HIV. ICAP in Tajikistan partners with the Republican AIDS Center, Republican Center for Healthy Lifestyle and Primary Health Facilities of the city of Istaravshan to implement services to improve HIV testing and ART initiation, retention, and adherence support for migrants returning back home from labor migration. The project also supports health education and treatment literacy initiatives through the development and rotation of short informational videos at the airports, the distribution of HIV-related information and dissemination of HIV information through social media, as well working with community social institutions, makhallas, and other local community religious leaders to raise awareness about HIV among the returning migrants and their family members.

### Intern Activities

- Participate in the project progress evaluation
- Participate in site visits accompanied by ICAP staff providing mentoring support
- Prepare one pagers/summary success stories on best practices
- Support program staff on editing project reports in English



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## ICAP Next Generation Internships 2020

### Practicum Opportunity: Tanzania



**Internship Focus** Monitoring and data management for bio-behavioral survey of key populations

**Duration** 3 to 6 months

**Location** Dar es Salaam

**Desired Qualification**

- Demonstrable knowledge of basic statistical measurements and descriptive statistical methods
- Basic data analysis skills (preferably using SAS or STATA)
- Prior experience living or working in sub-Saharan Africa
- Experience with study monitoring (data quality assurance, adherence to protocol, etc.)
- Willing travel by road with a maximum distance of about 300 miles
- Experience working with KP including people who inject drugs (PWID) and men who have sex with men (MSM).

### ICAP Tanzania Project Description

ICAP partners with the Tanzanian Ministry of Health, Community Development, Gender, Elderly, and Children to improve HIV prevention, care, and treatment for vulnerable and hard-to-reach populations, and to explore innovative ways of offering services and linking individuals to care. To support this work, a bio-behavioral survey will be conducted in seven regions among men who have sex with men (MSM), female sex workers (FSW) and people who inject drugs (PWID). To inform the survey preparations, a formative assessment will be conducted and will include key informant interviews (KII), in-depth interviews (IDI), and focus group discussions (FGD) with each key population and key stakeholders within each selected district across the seven regions. The survey will include collection of socio-demographic characteristics, risk behaviors (e.g., sexual behaviors and drug use), barriers to health service access, and uptake of HIV and harm reduction services.

### Intern Activities

- Weekly data review and cleaning identifying problem areas with data collection, reporting findings to the project's leadership, and developing appropriate corrective measure with input from the team
- Reconciliation of discrepancies between source documents and electronic data,
- Supporting documentation and tracking of referrals from the survey,
- Generating and reviewing recruitment diagnostics and weighted estimates,
- Supporting project report writing activities
- Assisting with prompt review of all data queries and resolution,
- Assisting with in-country training
- Other duties as assigned by the Project Director and other investigators



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### Practicum Opportunity: Zambia



**Internship Focus** Monitoring and data management for bio-behavioral survey of key populations

**Duration** 3 to 6 months

**Location** Lusaka

### Desired Qualifications

- Demonstrable knowledge of basic statistical measurements and descriptive statistical methods
- Basic data analysis skills (preferably using SAS or STATA)
- Prior experience living or working in sub-Saharan Africa
- Experience with study monitoring (data quality assurance, adherence to protocol, etc.)
- Willingly to travel by road with a maximum distance of about 300 miles.
- Experience working with KP including people who inject drugs (PWID) and men who have sex with men (MSM).

### ICAP Zambia Project Description

In Zambia, ICAP is partnering with the Ministry of Health to test innovative models of service provision and ensure sufficient numbers of well-trained nurses and midwives to support national health priorities. Additionally, ICAP provides technical assistance for the ZAMPHIA HIV population-based survey and an integrated bio-behavioral survey among key populations. Under the Supporting Sustainable Surveillance Systems among Key Populations (KP) and Support the Government of Zambia to Improve HIV-related Services for KP award, ICAP will conduct a biobehavioral survey (BBS) to measure the prevalence of HIV/STIs and risk behaviors among men who have sex with men (MSM) and people who inject drugs (PWID), estimate their population size in the survey sites, and gauge progress toward reaching 95-95-95 targets. Data will be collected in Lusaka (MSM/PWID), Livingstone (MSM/PWID), Kitwe (MSM), Solwezi (MSM), and Ndola (PWID).

### Intern Activities

- Weekly data review and cleaning, identifying problem areas with data collection, reporting findings to the project's leadership, and developing appropriate corrective measure with input from the team
- Reconciliation of discrepancies between source documents and electronic data,
- Supporting documentation and tracking of referrals from the survey,
- Generating and reviewing recruitment diagnostics and weighted estimates,
- Supporting report generation for CDC and NAC,
- Assisting with prompt review of all data queries and resolution,
- Assisting with in-country training
- Other duties as assigned by the Project Director and other investigators