Project Description

The student will work on two projects to analyze air quality and health in Allegheny County.

Objectives for project #1 include collecting, calculating, and summarizing all air monitor results from the Ohio Valley air monitoring program. Objectives for project #2 include analyzing hospitalization and emergency room age-adjusted rates for health outcomes related to air pollution (e.g., cardiovascular outcomes, respiratory outcomes, asthma) for Allegheny County and for two study areas (Ohio Valley municipalities and Mon Valley municipalities).

Primary Activities

- Calculate and report on bi-monthly ambient air concentrations of pollutants (from lab analyses)
- Determine health outcomes that are associated with air pollution and that can obtained from hospital and emergency room records
- Calculate age-adjusted rates of hospitalizations and emergency room visits in Allegheny County for selected health outcomes
- Create a report on hospitalization and emergency room rates in Allegheny County from 2000-2014

Project Deliverables

By the end of the practicum, the student will be expected to present, at minimum, the following:

- Initial results from the Ohio Valley air monitoring program (a table or other approach of communicating the information as applicable).
- A report on hospitalizations and emergency room visits for 2000-2014, including:
  - A brief literature review of the association between selected health outcomes and air pollution
  - Description of methods used
  - Results (age-adjusted rates, and 95% CIs, for Allegheny County and two study areas) including tables, graphs, or other diagrams
- Database of hospitalization and emergency room records

Specific Qualifications

- An interest in air quality, and how the Air Quality Program works to promote overall community health.
- Knowledge of epidemiology and direct age adjustment.
- Ability to use excel spread sheets for calculating ambient air concentrations of pollutants
- Strong written communication skills.
**2015 Pittsburgh Summer Institute In Applied Public Health**  
**Project Title: Animal Bite Surveillance**

<table>
<thead>
<tr>
<th>Bureau</th>
<th>Community Health Promotion/DP</th>
<th>Department</th>
<th>Infectious Diseases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practicum Location</td>
<td>3441 Forbes Avenue (Oakland)</td>
<td>Number of students needed for this project</td>
<td>1</td>
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</tbody>
</table>

**Project Description**  
[Enter summary of practicum opportunity. This may include information about the target population, nature and scope of work, overall project goals, and work environment.]

This is a surveillance project within the Infectious Disease Program focused on surveillance and follow-up of reported animal bites in Allegheny County. All animal bites and exposures are investigated and recommendations are made for follow-up care and/or prophylaxis if needed. The student will have the opportunity to develop important communication and data management skills, as well as interact with a variety of community partners and other governmental agencies.

**Primary Activities**  
[List the primary duties necessary to complete the project.]

1. Follow up on reported animal bites (primarily conducted via telephone with clients).
2. Help oversee follow-up care and prophylaxis, if needed.
3. Work with Animal Control and other community partners to ensure that testing is done in a timely and efficient manner.
4. Review the animal bite database and make recommendations (and, possibly make changes) to improve usability and efficiency.
5. Other duties, as necessary.

**Project Deliverables**  
[Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]

1. The student will be expected to conduct timely follow-up calls for reported animal bites and oversee any follow-up treatment that may be necessary based on the information obtained from the report and interview with the client. This will be documented and added into a database.
2. The student will be expected to prepare a report on possible improvements to the functionality of the animal bite database.
3. If available, the student should plan to participate in the annual Raccoon Rabies Oral Vaccination program, usually conducted during the second week of August.

**Specific Qualifications**  
[List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]

- An interest in learning about rabies and its impact on public health.
- Good oral communication skills and comfort talking to the public via telephone.
### Project Description

This is a project in applied epidemiology focused primarily on school vaccination data in Allegheny County and Pennsylvania. The student will be working with an epidemiologist to prepare an annual school vaccination summary report. The report is distributed to all school districts in Allegheny County and also serves as a public resource on the ACHD web site.

During the course of the practicum, the student will examine vaccination rates to identify any unique characteristics amongst certain districts, schools, or environments (ex: rural vs. suburban). There will also be opportunities to gain hands-on experience with PA-NEDSS, Pennsylvania’s Web-Based Electronic Disease Reporting System, and assist with other surveillance activities and case investigations of vaccine-preventable diseases.

### Primary Activities

- School vaccination data (75% of time)
  - Review school vaccination submission process for county and state;
  - Learn about ACHD’s school vaccination database and organize data within;
  - Analyze school data for the past school year to identify unique characteristics in vaccination rates amongst specific districts, schools, and geographical areas, as well as times of year and types of institutions (ex: public vs. private).

- Assist with data entry and case investigation of vaccine-preventable diseases (25% of time)

### Project Deliverables

- A brief (<10 pages) report summarizing school vaccination findings following a pre-existing template.
- Customized letters (using mail merge) for appropriate school district personnel summarizing vaccination data.

### Specific Qualifications

- Familiarity with MS Excel, including Pivot Tables (training will be provided, if needed)
- Working knowledge of MS Word, including editing, formatting, inserting tables/charts, and mail merge.
### Project Title: Assessing Air Dispersion Potential in Allegheny County

<table>
<thead>
<tr>
<th>Bureau</th>
<th>Environmental Health</th>
<th>Department</th>
<th>Air Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Practicum Location</strong></td>
<td>301 39th Street (Lawrenceville)</td>
<td><strong>Number of students needed for this project</strong></td>
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</tr>
</tbody>
</table>

#### Project Description

[Enter summary of practicum opportunity. This may include information about the target population, nature and scope of work, overall project goals, and work environment.]

At least twice a day, the National Weather Service launches sounding equipment to quantify conditions in the upper atmosphere. In the Pittsburgh area, the soundings are initiated at about 7 a.m. EST and 7 p.m. EST. Records of the data collected are available in tabular and graphical form.

The goal of this project is to analyze the data to characterize diurnal air dispersion potential in Allegheny County. This data will be compared to monitored ambient air quality data and may be used to inform air quality forecasting.

#### Primary Activities

[List the primary duties necessary to complete the project.]

- The intern will examine meteorological sounding and related data from at least the past five years to determine atmospheric dispersion potential by day/night, month, season, and/or other pertinent time period.
- The results of the dispersion analysis will be evaluated against air quality metrics to identify any correlation(s) with meteorological conditions.

#### Project Deliverables

[Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]

Analysis report including, as appropriate, detailed tables, graphs, figures, and textual description of dispersion conditions in Allegheny County.

#### Specific Qualifications

[List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]

Previous work with large data sets and statistical analysis skills would be helpful.
Project Title: Chronic Disease Prevention

**Practicum Location**
807 Wallace Avenue
(Wilkinsburg)

**Number of students needed for this project**
1

**Project Description**
[Enter summary of practicum opportunity. This may include information about the target population, nature and scope of work, overall project goals, and work environment.]

The Chronic Disease Prevention Program (CDDP) works to improve the quality of life of Allegheny County residents by enabling them to prevent, detect, delay and/or manage chronic diseases such as heart disease, high blood pressure, diabetes and cancer. In addition, the Chronic Disease Prevention Program tracks trends in illness and death in Allegheny County residents from these major diseases using information from death certificates, hospital discharge data, and the Allegheny County Behavioral Risk Factor Surveillance Survey. CDPP strives to address health inequities in the community. To this end, ACHD is engaging in developing collaborations and partnerships necessary to implement policy, systems, and environmental (PSE) changes within communities and countywide. A major focus of CDPP’s efforts is the operation and promotion of Live Well Allegheny, which is a countywide collaborative initiative involving residents, organizations, municipalities, schools, businesses, and community groups working together on increasing physical activity and healthier eating.

This is a multidisciplinary project in chronic disease prevention supporting ACHD’s Live Well Allegheny Campaign. Many of these duties will need to be completed off-site. This is a hands-on opportunity to learn more about chronic disease prevention at the local level.

**Primary Activities**
[List the primary duties necessary to complete the project.]

- Research evidenced based practices concerning various chronic diseases and/or PSE approaches for Live Well Allegheny.
- Develop and present power point presentations.
- Assist with projects involving data analysis concerning a chronic disease issue.
- Attend meetings with various community partners/stakeholders.
- Create brochures, flyers and other documents that communicate certain public health topics in a clear, concise manner in keeping with the challenges of health literacy.
- Read, discuss, and apply weekly materials (journal articles, governmental reports, newsletters, newspaper stories, etc.) related to, cancer, and diabetes.
- Intern will assist during “down times” with organizing materials (pamphlets, booklets, etc.)
- Other duties, as needed.

**Project Deliverables**
[Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]

- Compile and catalog evidence-based practices concerned chronic disease prevention.
- Prepare a report of best practices on policy, systems environmental, approaches for chronic disease prevention.

**Specific Qualifications**
[List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]

- Comfortable speaking to audiences of various sizes, ages, and socioeconomic backgrounds
- Comfortable traveling to, parking in, and speaking at venues in low-income areas throughout Allegheny County. A personal vehicle is required.
- Strong biological/scientific foundation in public health principles, diseases, anatomy/physiology, etc.
- Strong analytical skills in interpreting, researching, and preparing data, charts, graphs, etc.
- Proficient in Microsoft Word, Excel, Publisher, PowerPoint, and Outlook
- Solid communication skills, both oral and written, and willingness to sharpen those skills
- Professionalism in appearance, writing, interpersonal communication
- Flexible to changes/opportunities (e.g. last minute invitations to participate in a public health event
### Project Proposal: Disease Surveillance: Legionella and Hepatitis C

<table>
<thead>
<tr>
<th>Bureau</th>
<th>Epidemiology and Biostatistics</th>
<th>Department</th>
<th>Epidemiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practicum Location</td>
<td>ACHD, Administration</td>
<td>Number of students needed for this project</td>
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<table>
<thead>
<tr>
<th><strong>Project Description</strong></th>
<th>[Enter summary of practicum opportunity. This may include information about the target population, nature and scope of work, overall project goals, and work environment.]</th>
</tr>
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<tbody>
<tr>
<td>The Bureau of Epidemiology and Biostatistics provides data to programs within the Health Department, as well as to the community at large. Through the use of timely and accurate data, appropriate plans can be designed to target groups most at risk, and to identify those risk factors that can help predict disease outcomes within our community. While occasional work in the field may be required, most is completed in a business casual office environment. This practicum will involve disease surveillance activities, with a primary focus on Legionella and Hepatitis C.</td>
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<tr>
<th><strong>Primary Activities</strong></th>
<th>[List the primary duties necessary to complete the project.]</th>
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<tbody>
<tr>
<td>• Data collection</td>
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<tr>
<td>• Data entry</td>
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<tr>
<td>• Data management</td>
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<tr>
<td>• Data analysis</td>
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<tr>
<td>• Report development</td>
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<td>• Risk communication</td>
<td></td>
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<tr>
<td>• Assistance with other activities, including outbreak response, as needed</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Project Deliverables</strong></th>
<th>[Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upon completion of the practicum, the student will write a brief report and present their work to the Bureau of Epidemiology and Biostatistics staff. Other work products may include a written report, the development of educational materials and databases.</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Specific Qualifications</strong></th>
<th>[List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]</th>
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<tbody>
<tr>
<td>Some flexibility in hours will be necessary.</td>
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<tr>
<td>• Comfortable speaking on the phone/talking with the public</td>
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<tr>
<td>• Familiarity with excel and data analysis software, such as SAS is preferred</td>
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<tr>
<td>• Willingness to conduct occasional fieldwork as needed</td>
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</table>
This is a health communication project with the Allegheny County Immunization Coalition (ACIC) and ACHD’s Infectious Disease (ID) Program. ACIC is a community-based coalition of physicians, nurses, pharmacists, teachers, human service staff, public health professionals, and other community members dedicated to promoting immunizations across the lifespan. The work will be primarily focused on updating and creating educational materials about immunizations to targeted populations, including children, adolescents, and adults. The student intern will also have the opportunity to participate in ACIC activities, and will develop and present information at the Coalition’s annual conference.

Primary Activities [List the primary duties necessary to complete the project.]

1. Research best practices for creating educational materials about infectious diseases and immunizations across the lifespan, including language and literacy, format, content, and dissemination.
2. Work with both ID staff and the Graphic Services Department to revise, update, and create educational materials for the ID program.
3. Attend and participate in ACIC meetings and activities, including (but not limited to) at least one quarterly meeting, one executive meeting, and participate in the annual conference.
4. Other duties, as needed.

Project Deliverables [Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]

1. Immunization brochures for at least three different populations (children, adolescents, and adults).
2. Coordinate and host an informational table at the ACIC’s annual conference on November 5, 2015.
3. Design ACIC’s annual calendar promoting immunizations across the lifespan.
4. Develop an introductory slide show for ACIC presentations and conferences.

Specific Qualifications [List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]

- An interest in health education.
- Academic coursework in health communication or risk communication is desirable, but not required.
- You must be available on the following dates for ACIC meetings: May 14th and June 11th.
- You must also commit to hosting a table at ACIC’s annual conference on the morning of November 5, 2015. (This can be counted towards hours during the formal practicum).
### Project Title: Logistical Review of Raccoon Rabies Oral Vaccination Program

<table>
<thead>
<tr>
<th>Bureau</th>
<th>Administration</th>
<th>Department</th>
<th>Administration/Infectious Diseases</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Practicum Location</strong></td>
<td>3901 Penn Ave. (Lawrenceville)</td>
<td><strong>Number of students needed for this project</strong></td>
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</table>

**Project Description**

This is a collaborative project with ACHD’s Bureau of Administration and Infectious Diseases Program to improve the efficiency of the annual Raccoon Rabies Oral Vaccination Baiting Program. The program, sponsored by the U.S. Department of Agriculture, is part of a multi-state effort to eradicate raccoon rabies. While the number of rabid raccoons has steadily declined over the years, more importantly curbing rabies in raccoons has significantly reduced the risk of this deadly disease for people and their pets. In an annual week-long campaign, ACHD employees and community partners distribute 230,000 baits by hand in all municipalities on foot and from vehicles. The primary focus of this project will be to review the existing baiting routes for opportunities to improve efficiency and vaccine coverage. In addition, the student intern will help recruit, organize, and train volunteers to expand the program’s reach.

**Primary Activities**

1. Review existing routes of Raccoon Rabies Oral Vaccination Program, including historical outputs and designated staffing.
2. Provide recommendations for improved program efficiency, which may include the development and mapping of new routes within Allegheny County.
3. Organize and facilitate recruitment of program volunteers through both existing channels and new ones (for example: Medical Reserve Corps, Pitt Public Health).
4. Assist with follow-up calls for both the baiting program and animal bite complaints.
5. Other duties, as needed.

**Project Deliverables**

1. A report that outlines key recommendations for improved baiting routes and necessary staffing.
2. If necessary, create maps designating any changes to baiting routes or any new ones.
3. Recruit volunteers to supplement ACHD staffing and coordinate any relevant training.
4. Attend the training for and participating in the annual Raccoon Oral Rabies Vaccination Program (early-mid August).
5. Documentation from any follow-up calls related to baiting and/or animal bites.

**Specific Qualifications**

You must be available for Raccoon Rabies Oral Vaccination Program, which is typically conducted over the course of 5 days in early-mid August. The exact dates will be determined in the spring.
### Bureau

<table>
<thead>
<tr>
<th>Practicum Location</th>
<th>Department</th>
<th>Number of students needed for this project</th>
</tr>
</thead>
<tbody>
<tr>
<td>542 Fourth Avenue (Downtown)</td>
<td>Emergency Preparedness</td>
<td>1</td>
</tr>
<tr>
<td>Many activities can be completed independently, off-site.</td>
<td></td>
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</tbody>
</table>

### Project Description

Enter summary of practicum opportunity. This may include information about the target population, nature and scope of work, overall project goals, and work environment.

The Medical Reserve Corps (MRC) is a national, volunteer organization that is comprised of active and retired medical and medically-oriented personnel who can help respond to major emergencies and public health initiatives. By providing surge capacity, volunteers increase the community’s resiliency and help save lives. The MRC also supports public health initiatives, such as mass vaccination or non-emergency outbreak investigations. In Allegheny County, there are approximately 600 registered volunteers.

Volunteers utilize their knowledge and skills in their specialties to strengthen and increase public health emergency response capacity in Western Pennsylvania. ACHD offers monthly, topical trainings about preparedness topics to promote involvement and better prepare for a potential response.

This is a planning project within the Emergency Preparedness and Response Program. The student will be primarily focused on identifying potential training programs for MRC volunteers, including an initial assessment of training needs and participant feedback. There will also be opportunities to become involved in other preparedness training activities.

### Primary Activities

List the primary duties necessary to complete the project.

- Conduct an assessment with MRC members to identify training needs and satisfaction with prior training programs.
- Identify potential training programs for MRC members (and potentially schedule them).
- Assist with administration and documentation of licensure and training for both MRC members and ACHD employees.
- Other duties, as needed.

### Project Deliverables

Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.

- Generate a report on ACHD’s MRC training program, including evaluation of prior trainings and results of the needs assessment.
- Provide a robust list of potential training programs for MRC members for 2015-2016.
- Maintain updates to the preparedness training database.

### Specific Qualifications

List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.

- Student should be comfortable reaching out to community partners via telephone and email.
- Ability to manage a large data set in Microsoft Excel; Familiarity with Oracle database system preferred but not necessary.
Project Title: Resource Handbook for Air Quality Permitting Program

<table>
<thead>
<tr>
<th>Bureau</th>
<th>Environmental Health</th>
<th>Department</th>
<th>Air Quality</th>
<th>Practicum Location</th>
<th>Number of students needed for this project</th>
</tr>
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</table>

**Project Description**  
[Enter summary of practicum opportunity. This may include information about the target population, nature and scope of work, overall project goals, and work environment.]

The Allegheny County Health Department’s Air Quality Program is responsible for protecting the public’s health by regulating air pollutants within Allegheny County, enforcing federal pollution standards, and permitting industrial sources of air pollution.

The student will be working on a project to improve the efficiency of the Permitting Section by developing a handbook for use by the permitting engineers that will include, among other things, correspondence and general permits, as well as conducting an overall needs assessment of the Permitting Section. This internship will provide an opportunity to learn more about air quality and permitting, how the Air Quality Program affects public health in Allegheny County, as well as give exposure to the types of regulations that apply to air quality in Allegheny County.

Objectives include creating a collection of resources that can be used by permit engineers as a supplement to their actual permitting activities. This would act as reference, particularly to any future engineers in the program, and will make the process of issuing permits more efficient. As part of fulfilling these objectives, the student will need to determine from the current employees in the Permitting Section what resources are needed, and find other ways to increase efficiency.

**Primary Activities**  
[List the primary duties necessary to complete the project.]

- Conduct a needs assessment to the types of materials needed by the permit engineers and develop a table of contents for a Permit Engineers’ Handbook.
- Create correspondence templates for the various stages of the permitting process, from application to issuance.
- Develop templates for frequently issued types of permits (no technical knowledge is required).
- Develop checklists as well as any other needs determined in the needs assessment.

**Project Deliverables**  
[Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.]

By the end of the practicum, the student will be expected to present, at minimum, the following:

- A list of needs for the Permitting Section and an action plan to address those needs.
- A table of contents for a proposed resource handbook, including possible general permits.
- Correspondence required in the permitting process.

**Specific Qualifications**  
[List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.]

- An interest in air quality, and how the Air Quality Program works to promote overall community health.
- Strong written communication skills, particularly in interactions with the public.
- A desire to learn about working for a government agency and a desire to gain an understanding of government regulations.
- While a technical background is a plus, it is not required.
### Project Description

The Bureau of Epidemiology and Biostatistics provides data to programs within the Health Department, as well as to the community at large. Through the use of timely and accurate data, appropriate plans can be designed to target groups most at risk, and to identify those risk factors that can help predict disease outcomes within our community. While occasional work in the field may be required, most is completed in a business casual office environment. This practicum will involve disease surveillance activities, with a primary focus on vector borne and enteric conditions.

### Primary Activities

- data collection
- data entry
- data management
- data analysis
- report development
- risk communication
- assistance with other activities, including outbreak response, as needed

### Project Deliverables

Upon completion of the practicum, the student will develop a brief report and present their work to Bureau of Epidemiology and Biostatistics staff. Other work products may include a written report, the development of educational materials and databases.

### Specific Qualifications

- comfort speaking on the phone/talking with the public
- familiarity with excel
- knowledge of and some experience with data analysis software such as SAS is a plus
- willingness to conduct occasional fieldwork as needed
- a desire to work in a local health department setting
### Project Title: Vital Statistics Data Analysis and Reporting

<table>
<thead>
<tr>
<th>Bureau</th>
<th>Epidemiology and Biostatistics</th>
<th>Department</th>
<th>Biostatistics</th>
</tr>
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<tbody>
<tr>
<td>Practicum Location</td>
<td>542 4th Ave (Downtown)</td>
<td>Number of students needed for this project</td>
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</table>

#### Project Description
Enter summary of practicum opportunity. This may include information about the target population, nature and scope of work, overall project goals, and work environment.

The Bureau of Epidemiology and Biostatistics provides data to programs within the Health Department, as well as to the community at large. Through the use of timely and accurate data, appropriate plans can be designed to target groups most at risk, and to identify those risk factors that can help predict disease outcomes within our community. This is a data analysis project dealing with vital statistics; the work will be primarily focused on reviewing birth and death data to identify sentinel events. The project will provide a hands-on opportunity to develop and refine data analysis skills as well as the chance to author a variety of public health reports.

#### Primary Activities
List the primary duties necessary to complete the project.

- Review vital statistics to identify sentinel events (a sentinel event is an unexpected occurrence involving death or serious physical or psychological injury, or the risk thereof).
- Organize and analyze data, including mortality, natality, and deaths from unintentional injuries.
- Prepare reports based upon analysis of vital statistics described above.

#### Project Deliverables
Describe the work product that will be expected of the student upon conclusion of practicum activities. For example: a database, analysis report, community presentation, brochures or educational materials, site visits.

Upon completion of the practicum, the student will:

- Prepare reports for CDC based upon review and analysis of mortality data, natality data, and data regarding deaths from unintentional injuries;
- Create a database that facilitates analysis and reporting of vital statistics.

#### Specific Qualifications
List any specific skills or resources needed to complete the project, such as access to a vehicle or ability to use specific software.

Proficiency in Microsoft Office, including Word, Excel, and PowerPoint. The student should have an interest in learning about the role of vital statistics in public health practice, as well as a desire to learn about working at a government agency.
This practicum opportunity is with ACHD’s West Nile Virus (WNV) Control Program. The majority of the experience will be spent in the field trapping mosquitoes in Allegheny County and conducting surveillance for WNV. For more information about WNV and mosquito surveillance in Pennsylvania go to www.westnile.state.pa.us.

This is a paid practicum ($9.50/hour) not to exceed 300 hours. At a minimum, the student must be available to work from mid-May 2015 to the end of August 2015 for approx. 16-20 hours per week. Most hours will be worked during the first half of the week (Monday-Wednesday). A personal vehicle for field work is a requirement.

**Primary Activities**

**PRIMARY ACTIVITIES**

- Mosquito surveillance (dipping for immature mosquitoes & trapping for adult mosquitoes; minimum of 20 traps/week must be set once trapping locations are learned)
- Sorting and preparing mosquitoes to be sent for laboratory testing
- Database entry of surveillance results

**POTENTIAL SECONDARY ACTIVITIES**

- Mosquito larvicide treatments in wetlands (student may participate if available to work in April 2015 when treatments take place)
- Mosquito adulticide treatments (assisting during potential late-evening treatments)
- WNV Catch Basin Program (student may participate in one un-paid evening of this program for extra exposure to mosquito control activities)
- Asian tiger mosquito oviposition trap study (student may participate in collecting oviposition traps to help track the spread of this nuisance mosquito)
- Revising/creating vector control pamphlets & educational material
- Public education (e.g. door-to-door outreach in neighborhoods with Asian Tiger mosquito, responding to mosquito complaint calls, etc.)

**Project Deliverables**

The student will learn trapping locations from the preceptor for the first month, and then trap on their own for the remainder of the summer. The student will assist the preceptor in meeting a weekly trap minimum as set in the 2015 WNV Grant provided by the PA Department of Environmental Protection to ACHD. All surveillance data will be entered into the WNV database within one day of field work.

**Specific Qualifications**

A driver’s license and personal vehicle are necessary to transport mosquito traps to and from the field. Mileage will be reimbursed at the Pennsylvania Mileage Reimbursement Rate (currently $0.56/mile). The student must be able to lift 50 pounds and be willing to haul traps in their personal vehicle that may get dirty and have an odor from the bait used to lure mosquitoes. The majority of time will be spent in the field therefore the student must be physically able to conduct such work for the duration of the summer. A personal GPS device would be helpful when driving around to locate trap sites. When interacting with the public, the student must be able to represent the WNV Control Program with professionalism and provide information about the roles and responsibilities of the program.
ACHD’s Workforce Development and Training Program is responsible for increasing access to and providing quality training for all staff members. The training program utilizes the Core Competencies for Public Health Professionals as a platform for delivering the Ten Essential Services of Public Health.

This internship will provide an opportunity to work on innovative training initiatives that support ACHD’s efforts to achieve national accreditation. Through a variety of activities, the student will be able to develop important assessment, data analysis, and program planning and implementation skills, as well as interact with a significant number of program areas within the department. This is a unique chance to gain hands on experience with the public health accreditation process, while working on a truly interdisciplinary project.

Primary Activities

- Administer and analyze the second phase of a workforce needs assessment based on the core competencies for public health professionals.
- Assist in the implementation of a web-based training platform for ACHD staff.
- Identify sources of competency-based trainings for public health professionals.
- Assist with the creation of competency-based job descriptions for ACHD staff.
- Other duties, as needed.

Project Deliverables

Many of the deliverables for this project will be met through participation in the planning process and implementation of workforce training initiatives. The activities outlined above will contribute to the development of ACHD’s 2015-2016 workforce development plan. The student will be expected to prepare and present a summary analysis of the training assessment findings, including priority areas for improvement. In addition, the student will be expected to participate in and/or assist in the delivery and/or evaluation of any trainings that are scheduled during the course of the practicum.

Specific Qualifications

- An interest in public health program planning and implementation.
- The ability to think across disciplines, both within the health department and the community.
- Strong written and oral communication skills.