Students are encouraged to seek out research experience while pursuing their undergraduate degree. Students desiring a research experience should review the list of faculty research projects provided below and see what opportunities are available. Students must contact faculty directly to express their interest and get more information. Students may earn academic credit for their research experience.

The following faculty members are eager to work with undergraduate students majoring in environmental disciplines who want practical research experience, integrating basic and applied science working towards solutions to real world problems facing our environment.

**Basic Instructions:**

1) Student should review list of available projects below, and then contact faculty members directly to learn more about project expectations and qualifications (if any) that are needed. **Mark your subject line of your email as “Research Inquiry” and in your email provide the following information:**

   * Student name, class year, GPA, list of any relevant course work completed, number of hours available to work on project each week; specific skills/ experience/ training required for the project.

2) To earn academic credit, an ENVSCI Independent Study contract must be completed and signed by both the student and the sponsoring faculty member. This form is available on-line at [http://eco.umass.edu/wpcontent/uploads/2011/11/ENVSCI_IndepStudyForm_fields.pdf](http://eco.umass.edu/wpcontent/uploads/2011/11/ENVSCI_IndepStudyForm_fields.pdf)

3) Instructions for completing the form are provided on-line within the same document link. Be sure to indicate the number of credits being earned for the research experience.

4) Please note that all Independent Study projects (ENVIRSCI 296, 396, 496) **must be letter graded.** Student can choose to enroll in Internship/Practicum credits (ENVIRSCI 298, 398, 498), but these courses are mandatory Pass/Fail.

5) **The completed Independent Study Contract must be delivered to the ENVSCI Program Office at 310 Holdsworth Hall prior to the close of the Add/ Drop period.** (If form is received after the end of the Add/Drop period, the ENVSCI Office will initiate the paperwork for a Late Add request, and the student will be required to hand-carry this paperwork across campus for the necessary approval signatures.)

**RESEARCH OPPORTUNITIES LIST** is organized by Faculty Name and **BEGINNS ON NEXT PAGE.**

Faculty Research Interests. Updated January 2017
~ Environmental Research Opportunities ~ Spring 2017~

David Boutt, Assoc. Professor  
Geosciences  
Morrill Science Center IV Room #248, 413-545-2724  

The Hydrogeology Laboratory at UMass is looking for 1 or possibly 2 students to work during the spring (10 hrs/wk), summer (20-40 hrs/wk) and the fall (10 hr/wk) on a funded project focused on characterizing the isotopic composition of surface and groundwater across the state of Massachusetts. Work would include field sampling, sample preparation, laboratory testing, database entry, and some limited GIS work depending on the strengths of the candidate. Hourly compensation is available for this position. I would be most excited about a student who would develop a component of the work into a senior thesis or honors thesis project. Rising Juniors preferred. Students would work with Dr. David Boutt and a graduate student.

Forrest Bowlick, Lecturer  
Geosciences & Environmental Conservation  
Morrill Science Center IV Room #260, (413)-577-3816  

Project description: Geographic Information Science (GIS) encompasses a diverse set of skills and abilities. Yet what those abilities are, and how they interrelate in academic instruction and professional practice, remains under-explored. Students working on this project will help analyze GIS curricula and examine professional practice of GIS through explorations of large datasets. Depending on student interest, data collection of curricular materials is also a possibility. Students will practice content analysis, build a familiarity with the nature of GIS practice, and have opportunities to write scientific papers among other research opportunities.

Required skills: GIS experience preferred but not required (potential to learn on the project); SQL experience a plus (but not required).  
Required commitment: Approximately 5 hours per week, but flexible based on student schedule.  
Compensation: Academic Credits – Independent Study (graded project) or Practicum (Pass/Fail) Possible to extend position for additional semester if desired.  
Contact Professor Bowlick with your interest: fbowlick@umass.edu

Bethany Bradley, Assoc. Professor  
Environmental Conservation  
318 Holdsworth Hall, 413-545-1764  

Project Description: Global Invaders Project  
Invasive species reduce biodiversity and are considered a major threat to ecosystems worldwide. Despite general knowledge of their widespread impacts, we still lack a consistent list of which species are invasive, where they have been studied, and what sorts of specific impacts have been identified. This information is critical for understanding the conditions that lead to invasion and informing effective monitoring and management. Students joining this project will have the Faculty Research Interests. Updated January 2017
opportunity to contribute to a multi-year effort in the Spatial Ecology Lab, which is compiling a comprehensive global database of invasive plants (“the Global Invaders Project”). Students will gain experience reading scientific literature in invasion ecology and will participate in weekly lab group meetings to learn about cutting edge research on invasive plants.

**Supervisors:** Brittany Laginhas (PhD student) and Prof. Bethany Bradley

**Duties/Qualifications:** For the Spring 2017 semester, we seek 3 students to join our ongoing project. Duties will include reading peer-reviewed literature and extracting information outlined in an existing database. No previous experience is needed, but good organization skills and attention to detail are important. Students participating in this project will gain experience in efficiently reviewing scientific literature, as well as data collection – skills that are invaluable for those looking to continue scientific research beyond their undergraduate academic career. Participants will also acquire knowledge in invasive species ecology. Students are also encouraged to attend weekly lab discussions to learn more about ongoing research projects.

**Compensation:** This is a 3-credit independent study position with the possibility to stay on for a full-time paid internship during the summer 2017.

**Contact Information:** Interested students should email a transcript (unofficial), resume and a brief description of why they are interested in the project (<100 words) to Brittany Laginhas (blaginhas@cns.umass.edu).

**Dwayne Breger, Extension Professor**
**Clean Energy Extension**
**Department of Environmental Conservation**  
dbreger@umass.edu

209 Agricultural Engineering Building, 413-545-8512

**Project 1 - Examination of the Role of Farmers and Foresters in the Upper Austria Wood Energy Market**

**Description:** Upper Austria is the world leader in fully transitioning their building heating consumption from fossil fuels to renewable thermal technologies, primarily wood pellets and chips. Meanwhile, they have emerged as the world’s nexus for modern wood pellet boiler design and manufacturing that serve the EU and are now emerging in New England. Amongst the strategies of policy leaders in the region was to engage the rural farming and forestry sector in promoting, managing, servicing, and supplying wood heating systems, including small community district heating projects. This examination will dig deeply into the exact role that farmers and foresters are playing in this market and how they have been effective in advancing the sector. The study will set the stage for follow on work to assess how this experience may transfer to the rural economy in western Massachusetts.

**Requirements / Qualifications:** Introductory course in economics or resource economics. Good research skills.

**Time commitment:** 3-5 hours per week

**Compensation:** Academic credit or paid hourly position. (credit options should be reviewed with student’s advisor). Project could be extended into the summer for academic credit if student was interested.

**Contact:** Dwayne Breger, dbreger@umass.edu

List continued on next page.
Project 2 -- Creating a HeatMap for Mohawk Trail Region

Description: Using GIS or other software to map thermal energy demands in a region is an effective means to understand and promote market opportunities and targeted incentive programs for renewable thermal technologies such as wood pellet or chip heating, solar thermal, ground-source heat pumps, and opportunities for district heating. Examples of HeatMaps in Europe and the U.S. will be reviewed, and a mapping methodology will be adopted for the Mohawk Trail region in northwest Massachusetts. Using available data on permitted boilers, data concurrently being collected for boilers in municipal buildings, and through additional data collection, a map will be created for the region.

Requirements / Qualifications: Introductory course in GIS. Good research skills.

Time commitments: 3-5 hours per week

Compensation: Academic credit or paid hourly position. (credit options should be reviewed with student’s advisor). Project could be extended into the summer for academic credit if student was interested.

Contact: Dwayne Breger, dbreger@umass.edu

Project 3 -- UMass Amherst Electric Vehicle Infrastructure Data Analysis and Reporting Project

Description: UMass Amherst Transportation Services is committed to maintaining and growing the campus’ electric vehicle (EV) use and supporting infrastructure, including its expanding network of EV charging stations. This project involves (1) understanding existing EV infrastructure build-out plans that Transportation Services may currently have in place; (2) compiling and analyzing historical technical and economic data available from existing EV charging stations (e.g., usage rates and patterns, vehicle types, locations, costs, etc.); and (3) providing data analysis findings and associated recommendations to Transportation Services for consideration in the context of existing plans.

Supervisor: River Strong, Assistant Director, Clean Energy Extension

Requirements / Qualifications: Introductory course in economics or resource economics. Good research skills.

Time commitments: 3-5 hours per week

Compensation: Either independent study credit or practicum credit, per review with their advisor

Contact: River Strong, gcstrong@umass.edu

Christine Hatch, Assistant Professor
Department of Geosciences
233 Morrill Science Center, 413-577-2245

Water Resources & Climate Change
chatch@geo.umass.edu

Project Description: Tidmarsh Farms cranberry operation has recently been restored into the largest freshwater wetland in the state, and is the locus of the Living Observatory, a vibrant scientific and educational community of researchers, educators and the public. One indicator of restoration success is soil moisture and the ability of water to move through the site. Soil moisture determines the relative success of wetland species as they compete with others for new space provided by restoration efforts. And yet, little quantification of moisture exists on the site or as part of monitoring efforts. I have collected several samples of soil throughout the site, and would like an undergraduate assistant to help process these samples in the laboratory to determine their hydrologic properties.

Supervisor: Christine Hatch, and M.S. graduate student Jesse Koyen.

Faculty Research Interests. Updated January 2017
**Responsibilities/Qualifications:** The student must have the ability to work independently and be responsible, and the lab instrumentation requires acute attention to detail for successful measurements. Enthusiasm and patience are also a plus!

**Commitment:** This will require an average of 5 hours per week, but may be irregularly distributed throughout the semester, and are flexible by arrangement.

**Compensation:** This will be a 2-credit independent study (or practicum if desired), and the student will be expected to write up the methods used and all of the results with some data interpretation by the end of the semester. **Duration:** This project may have the possibility for extension into the summer, and may be eligible for hourly pay at that time ($12/hour most likely if available)

**Contact** Christine Hatch, chatch@geo.umass.edu, (413) 577-2245. Please send a brief statement of interest and resume to be considered for this position.

**Scott Jackson, Extension Assistant Professor**
**Environmental Conservation**
328 Holdsworth Hall, 413-545-4743

**Wildlife & Wetland Ecology**
**sjackson@umext.umass.edu**

**Project Description:** We are seeking one intern to work for the Jackson Aquatic Connectivity Team (JACT) on its Wetland Assessment Project (WAP) during the spring semester of 2017. The wetland assessment project works on a method of wetland assessment called the Conservation Assessment and Prioritization System (CAPS). In order to continuously update and improve CAPS as a method of assessment, data about wetland vegetation communities must be added to its databases every summer. The intern would be working to help prepare for the upcoming field season, in which we send out botanists to do vegetative surveys in wetlands. These preparations will include gathering information about landowners to ask for permission to survey wetlands on their land, working with Microsoft Excel and ArcGIS to put together mailings to send out to landowners, organizing and ordering equipment, and coordinating with the graduate student in charge and the botanists on any other organizational or investigation duties that are needed before the summer.

**Supervisor:** Interns will be working with Carolyn Gorss, a graduate student in Environmental Conservation who is working with CAPS for her thesis.

**Duties/Requirements:** We are looking for a motivated individual with basic skills in Microsoft Excel and ArcGIS. The applicant must have excellent communication skills, and work well with a team. Anticipated hours to be spent each week working: 3-7 hours a week. More work will need to be done at the beginning of the semester, and work will taper off towards the end. Hours are very flexible.

**Compensation** is paid hourly wages at the minimum wage of $11/hour. There is a possibility of continuing to work with JACT into the summer as a botanical intern, but a separate application will have to be filled out when the time comes.

**Contact** Carolyn Gorss at cgorss@umass.edu with your resume (in PDF form) and a brief paragraph describing your background skills that are particularly pertinent to this work, and any interest you have in wetland ecosystems.

Faculty Research Interests. Updated January 2017
Anita Milman, Assistant Professor  
Environmental Conservation  
amilman@eco.umass.edu  
210 Holdsworth Hall, 413-545-3749

Project Description: Science-Policy Interface in Transboundary River Basins
Around the world, intensifying demands for water resources, changes in the hydro-climatic cycle, and degrading water quality pose threats to human and ecosystems. These risks are particularly of concern in transboundary river basins, where coordination across international political boundaries adds complexity to already challenging governance issues. The effective production of scientific knowledge and incorporation of that knowledge into decision-making will be a critical factor influencing how such water-related risks are mitigated, as decision-makers respond to potential impacts and externalities that span sovereign countries.

Duties: This research assistant will work to develop preliminary data for a longer-term project that seeks to identify promising pathways by which science is developed and informs policy in transboundary basins. This semester the focus is on identifying, classifying and cataloging the science produced by three transboundary river basin institutions: The Mekong River Commission, The International Commission for the Protection of the Rhine, and the International Joint Commission (US-Canada).

Qualifications: Attention to detail and ability to be systematic; Knowledge of excel or another database program; Interest in water resources and policy

Anticipated time commitment:  10 hours per week

Compensation: Academic Credit Only. Option for graded Independent study or pass/fail practicum. Possibility to extend position into part time paid summer research, TBD

Contact: Prof Anita Milman amilman@eco.umass.edu

Om Parkash, Associate Professor  
Biofuels & Plant Biotechnology  
parkash@umass.edu  
Stockbridge School of Agriculture  
413-545-0062 Paige Lab

Long-term projects available for students interested in biotechnology applications for:
1. Engineering oil seed crops for biofuel and bioproducts
2. Developing Climate-resilient crops for global food security
3. Engineering non-food plants for bioremediation of arsenic and other metals
4. Developing arsenic free rice.

Honors students encouraged to apply (possible thesis option). Academic credit available. Students must have strong interest in biotechnology.
Project description: Laboratory assistance needed for an undergraduate Honors Thesis project examining the role of calcium supplementation on juvenile mussel growth. Work involves measuring growth of juvenile mussels using the imaging software Image Pro.

Qualifications/Responsibilities: No experience is necessary; however students should be comfortable learning sampling procedure and imaging software. Ability to work independently and attention to detail required. There may be additional work on freshwater mussel propagation available at the U.S. Fish and Wildlife Service Richard Cronin Aquatic Resource Center in Sunderland, MA.

Compensation/commitment: Positions are available for academic practicum credit (1-2 credits, 3-6 hours/week). A flexible work schedule may be possible.

Contact Virginia Sowers (vsowers@umass.edu) with your interest and availability.

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Michelle Staudinger
Northeast Climate Science Center, Science Coordinator
Environmental Conservation, Adjunct Faculty
126B Morrill Science Center, 413-577-1318

Climate change induced shifts in phenology of coastal fish and wildlife
We are seeking motivated undergraduates to aid in a project investigating how climate change is influencing shifts in phenology (also known as the timing of recurring life history events) in: coastal fishes, marine mammals, and seabird species along the Atlantic coast. Assistance on this project includes helping investigators: 1) compile, digitize, and organize existing and historical datasets; 2) run statistical and summary analyses related to species-specific case-studies; 3) conduct literature searches on species related to the student’s interests, and/or 4) help map occurrence data in ArcGIS. Students selected to work on this project will discuss their research interests and goals with the project investigators and tailor their project to include one or more of the tasks listed above. More information on this project can be found at:


The position is based out of the Northeast Climate Science Center at UMass Amherst. Applicants with a strong background and interest in marine and coastal ecosystems, use of spreadsheets and analytical skills are especially encouraged to apply. Dependability, attention to detail, initiative, and independence will also be considered.

Supervisors: Michelle Staudinger (PI-NE CSC); and Keenan Yakola (M.S. Student)
Period: Spring semester with possible extension over the summer
Anticipated number of hours: 1-2 credit hours, or 3-6 hours of work per week
Compensation: Independent Study or Practicum credits available; Paid positions may be available for strong candidates; work-study students are encouraged to apply.

Contact Michelle Staudinger (mstaudinger@usgs.gov) with your interest and availability.
Kristina Stinson, Assistant Professor  
Environmental Conservation  
217 Holdsworth Hall, 413-577-3304  

Project description: Maple syrup is produced from the sap of sugar maple collected in the late winter and early spring, and tapping maple trees is a cultural touchstone for many in New England. The tapping season is dependent on weather conditions, and climate change may impact the sustainability of maple sugaring. Our research with ACERnet (Acer Climate and Socio-Ecological Research Network; blogs.umass.edu/acernet) is funded by the Northeast Climate Science Center (necsc.umass.edu) and addresses the impact of climate on the quality of maple sap used to make maple syrup. We collect data on sap flow, sugar content and chemical composition throughout sugar maples distribution, and relate this to variation in climate across the region. We are also engaging a range of stakeholders, from conservation and governmental organizations to Native American tribes and other individual producers to understand the concerns of those who manage maple. Ultimately this project will make projections of maple syrup quality under future climate conditions and under a variety of management strategies.

We are recruiting 1-2 student research assistant(s) to help with this project. Activities include assisting with sap collection at the Harvard Forest sampling site; finding, downloading, and processing publically available environmental data; assisting with outreach efforts including video editing and adding content to the ACERnet website; helping to organize a stakeholder workshop that will be held in the spring.

Supervising individual: Josh Rapp, Postdoctoral Researcher  
Qualifications: Field work is at the Harvard Forest in Petersham, MA (~45 minute drive from UMass). Student must have a vehicle to participate in field work; mileage reimbursement possible. Experience with video editing and website design helpful.

Number of hours needed each week: 5 - 10 (or more with work study)  
Compensation available: Practicum credits (Pass/Fail), or paid hourly position (work study preferred);  
Contact: Josh Rapp, jmrapp@umass.edu with your interest.

Chris Sutherland, Assistant Professor  
Environmental Conservation  
118 Holdsworth Hall, 413-545-1770  

Project 1 description: Red-backed salamander field assistants

Dr. Chris Sutherland and Dr. Evan Grant are seeking undergraduate assistants to work on several on-going research projects on the red-backed salamander as part of SPARCnet (Salamander Population and Adaptation Research Collaboration Network). Primary duties will involve capture mark-recapture of salamanders, including measuring, and marking salamanders with visual implant elastomer. In addition, undergraduate research assistants will help with a variety of other SPARCnet projects, including:

Faculty Research Interests. Updated January 2017
• a field experiment assessing predation of red-backed salamanders by turkeys to determine whether predation risk is related to salamander color morph,
• a field experiment assessing the impact of cover board density on salamander detectability and density,
• a laboratory experiment evaluating salamander behavior in response to exposure to temperature gradients.

In addition to existing SPARCnet research projects there is potential opportunity for the student to develop an independent research project using data collected while assisting with SPARCnet projects. This student must have a valid driving license, and preferably have access to a vehicle as the field sites are located in Springfield, MA and Wendell, MA, and they will be responsible for their own transportation.

**Supervisors:** Project will be supervised by Jill Fleming (MSc student) and Ben Padilla (PhD student)

**Time commitment:** Student will be required to contribute at least 10 hrs/week to assigned projects.

**Compensation available:** These positions are unpaid. We are willing to discuss compensation in terms of academic credits and can offer ‘independent study credits’ associated with a graded project and ‘practicum credits’ as pass/fail.

**Beyond spring semester:** Any students involve in SPARCnet projects will have the opportunity to secure long-term positions in our research group based on performance during the semester.

**Applying:** To apply, please contact Jill ([jefleming@umass.edu](mailto:jefleming@umass.edu)) and Ben ([bjpadilla@umass.edu](mailto:bjpadilla@umass.edu)) with a short paragraph describing why you would be interested in the position.

**Project 2 description: Boreal Forest Research Assistant**

Dr. Toni Lyn Morelli and Dr. Chris Sutherland are seeking two undergraduate assistants to work on two on-going research projects assessing the impacts of climate change on boreal forest wildlife ([red squirrels, carnivores & snowshoe hares](#)). Primary duties will involve developing a new database of historical and current [mast data](#) collected by New Hampshire Fish and Game Department, and processing and entering camera trap data into new and existing photographic databases. This position is ideal for students interested in:

• gaining experience with ecological databases, including data entry and design,
• understanding masting ecology as it relates to wildlife,
• improving wildlife identification skills, and
• learning about the impacts of climate change on boreal forest species, including Bicknell’s thrush, Canada lynx, American marten, and snowshoe hare.
In addition, there is an opportunity for the student to develop an independent research project using data collected and processed for these projects – specifically comparing data from multiple mast data sources for consistency.

Supervisor: Alexej Sirén (PhD student)

Pre-requisite skills: Applicants are expected to highly motivated, detail oriented, and have some data management experience with MS Excel and preferably familiar with MS Access.

Time commitment: Students will be required to contribute at least 10 hrs per week to assigned projects.

Compensation available: These positions are unpaid. We are willing to discuss compensation in terms of academic credits and can offer ‘independent study credits’ through a graded project only, and ‘practicum credits’ as pass/fail.

Beyond spring semester: Any students involve in our projects will have the opportunity to secure long-term positions in our research group based on performance during the semester.

Applying: To apply, please contact Alexej (asiren@umass.edu) with a short paragraph describing why you would be interested in the position and the relevant skills that you would bring to the project.

Paige Warren, Associate Professor
Environmental Conservation
216 Holdsworth Hall, 413-545-0061

Urban Wildlife Ecology
pswarren@eco.umass.edu

Project 1: Bird TV? Behavioral Analysis of Nesting Songbirds from NestCam Footage

Project Description: Research in the Warren lab focuses on the impacts of urbanization on wildlife. Suburban development changes habitat structure, influences resource availability, and affects wildlife behavior. As food availability in a habitat changes, animals must make foraging decisions to optimize the use of their time and energy while still avoiding predator detection.

We are looking for research assistants to contribute to a project on parental behavior of songbirds at the nest, utilizing previously recorded video footage of nesting wood thrushes and gray catbirds. Duties for the potential assistant would include watching nest videos and collecting data from them using a computer program developed for this purpose. Opportunities may arise to assist with other lab projects as well as to assist with data analysis and writing for interested students.

This position requires a person who is: interested in birds and animal behavior, highly reliable, able to work independently, detail oriented, strong on critical thinking skills. There is a possibility to stay on in the lab during the next semester.

Eligibility: Sophomore, Junior, or Senior
Hours Per Week: 6-10
Compensation: Academic Credit only – Pass/Fail Practicum credits

Faculty Research Interests. Updated January 2017
Contact Person: Kit Straley, Graduate Student Contact E-mail: kstraley@cns.umass.edu
To apply, please submit 1) a brief letter expressing your interest, 2) a copy of your resume with relevant work and coursework, and 3) unofficial transcripts.

Project 2: Spiders, Worms, and Pillbugs - Oh My! Sorting Leaf Litter Invertebrates from Suburban Forests

Project Description: Research in the Warren lab focuses on the impacts of urbanization on wildlife. Suburban development changes habitat structure, influences resource availability, and affects wildlife behavior. We are looking for research assistants to contribute to a project on food availability for nesting songbirds in suburban and rural forest habitats. Duties for the potential assistant would include sorting and counting invertebrate samples collected over the previous summer.

Interested students may also contribute as writers to an ongoing outreach blog on insects in the lab: https://bittybugs.wordpress.com/. Opportunities may arise to assist with other lab projects, such as the preparation of fruit and invertebrate samples for stable isotope analysis. This position requires a person who is: interested in invertebrates and insect taxonomy, highly reliable, able to work independently, detail oriented, strong on critical thinking skills. No particular experience necessary / any level student may apply. There is a possibility to stay on in the lab during the next semester.

Hours Per Week: 6-10
Compensation: Academic Credit only. Pass/Fail Practicum credit
Contact Person: Kit Straley, Graduate Student: kstraley@cns.umass.edu
To apply, please submit 1) a brief letter expressing your interest, 2) a copy of your resume with relevant work and coursework, and 3) unofficial transcripts.

Project 3: Data Management and Analysis, Archiving and Interpreting the Information You've Worked so Hard For

Project Description: Research in the Warren lab focuses on the impacts of urbanization on wildlife. Suburban development changes habitat structure, influences resource availability, and affects wildlife behavior. We are looking for research assistants to contribute to a project on food availability for nesting songbirds in suburban and rural forest habitats. Duties for the potential assistant would include reviewing data collected over the summer for accuracy, working with a Microsoft Access database and Excel to input new data, and working with a graduate student on exploratory visualization of data.
Qualifications/responsibilities: This position requires a person who is: interested in data management and computer programs, highly reliable, able to work independently, detail oriented, strong on critical thinking skills. Sophomores, Juniors and Seniors encouraged to apply. There is a possibility to stay on in the lab during the next semester.
Commitment: 6-10 hours per week
Compensation: Academic Credit only – Practicum Pass/Fail credits

Faculty Research Interests. Updated January 2017
Contact Person: Kit Straley, Graduate Student Contact E-mail: kstraley@cns.umass.edu
To apply, please submit 1) a brief letter expressing your interest, 2) a copy of your resume with relevant work and coursework, and 3) unofficial transcripts.

Baoshan Xing, Professor
Stockbridge School of Agriculture
Paige Lab, 413-545-5212

Environmental & Soil Chemistry

Our group works on the environmental fate and behavior of the contaminants of emerging concerns such as endocrine disrupting chemicals and antibiotics. In addition, our group examines the environmental processes and toxicity of engineered nanoparticles to provide valuable data for their sustainable development and application without producing the harmful ecological and health consequences experienced with other classes of substances/chemicals in the past.

Students must have basic knowledge of chemistry and be willing to work diligently. Nine to ten (9 to 10) hours/week anticipated for three credit project. Graded Independent Study credits only.