Summer 2015 Call for Student Applications
James H. Barrow Field Station, Hiram College

The James H. Barrow Field Station (FS) invites applications from continuing Hiram College students for internship and employment opportunities for summer 2015. Each opportunity includes a stipend of up to $440 per week ($11 per hour at 40 hours per week) and housing in a Hiram College residence hall. Guidelines for all applications, a full listing of the projects with brief descriptions, and the one-page application form are in the pages below. All of this information also can be found on the Career Services website (www.hiram.edu/career). Contact Jim Metzinger (metzingerje@hiram.edu; 330-527-2141) if you have any questions about the application process.

The minimum requirements for all applicants are:
1. Grade point average (GPA) of 2.50 or higher;
2. Good academic standing at Hiram College; and
3. Continuation at Hiram College through the 2015-16 academic year.

Applications must include the following four items:
1. The completed one-page application form (on last page of this document):
   Include names and contact information for 3 professional references, including your academic advisor. Also include your signature on the single page application and cover letter. Submit the single page application and cover letter both electronically and as a paper copy.
2. A formal cover letter addressing:
   a. your interests and motivations for this internship,
   b. relevant experience to support your application,
   c. which professor(s) and/or staff member(s) you wish to work with (see options below),
   d. why you wish to work with the professor(s) and/or staff member(s) you list in “c” above,
   e. your long-term professional goals, and how this internship fits those goals;
3. An unofficial copy of your most current transcript:
   You will permit us access to your electronic transcript information by signing the application below. To facilitate things please print a paper copy of your transcript from the Web4 site (http://home.hiram.edu/) and submit it along with the signed one-page application form and the signed paper copy of your cover letter.
4. An application for summer 2015 work study:
   Everyone must apply for work study eligibility by doing the following: 1) complete the 2015-16 FAFSA; and 2) submit a summer 2015 financial aid application at http://www.hiram.edu/financial-aid/documents-and-resources or at the Financial Aid Office in Teachout-Price Hall. 3) Finally, every applicant will provide a copy of her/his Summer 2015 Financial Aid Award Letter to Jim Metzinger as soon as it is available.

Submit these items via email to metzingerje@hiram.edu AND as a paper copy to Vicki Kohn in 116 Gerstacker Hall.

Review of applications will begin on Monday, 5 March 2015 and will continue until positions are filled.
Summer 2015 Projects at the James H. Barrow Field Station

The James H. Barrow Field Station (FS) is once again fortunate to offer about 20 paid internship and employment opportunities to continuing students at Hiram College for summer 2015 (see descriptions below). Contact the leader/supervisor of a particular project if you are interested in one or more of these opportunities. Contact Jim Metzinger (metzingerje@hiram.edu; 330-527-2141) if you need more information about the application process or materials.

Please note that all student interns and employees may be asked to contribute to general duties for maintenance and function of the FS and grounds, particularly in preparation for special events. Also, every student supported by FS funding will provide both a poster and a final report summarizing their work so that we can publicize it to the campus and the wider community at a Fall 2015 event. All FS interns and employees are expected to participate in special events at the FS, especially the breakfast and tours on Saturday morning, 20 June 2015 that are offered to visitors for Alumni Weekend. This event will highlight the 2015 FS activities for Hiram alumni and show the key roles that students, staff, and faculty play at the FS. Posters of anticipated work and or research, to be completed, will be required to be developed and displayed for the alumni event.

All students involved with animal-related internships at the FS will participate in the daily husbandry and routines involving the captive animal collection used for education.

Each opportunity includes a stipend of up to $440 per week ($11 per hour for 40 hours) and housing in a Hiram College residence hall or available FS housing. Interns are expected to work a minimum of 36 hours per week for the entire project unless other arrangements are made with the supervisor(s). Unpaid time off is allowed for illness, vacations, and other events that prevent students from working provided appropriate prior notice is given to the supervisor(s) and to the management staff of the FS.

All internships marked with a single asterisk below require an interview with the management staff at the FS as part of the selection process. Students being considered for those positions will be contacted by FS staff to arrange an interview.

 Titles of Projects, with number of students, number of weeks, and starting date in parentheses, followed by supervisor information and a short description...

**Field Station Stewardship Interns (2 stu, 14 wks, 18 May)**

Jim Metzinger (metzingerje@hiram.edu, 330 527-2141, Associate Director, James H. Barrow Field Station) and Jim Tolan, Emliss Ricks (tolanje@hiram.edu rickseo@hiram.edu 330 527-2141, Field Station Stewards, James H. Barrow Field Station)

Students will work full time performing various aspects of Field Station stewardship, maintenance, upkeep, minor repairs, etc. Duties include but are not limited to: Kennedy Nature Trail maintenance; General FS maintenance including mowing, landscaping, gardening, grounds work, invasive plant control; Observation Pond management; Cage and display design, construction, maintenance. Special projects this summer include bridge building and trail maintenance on both the Kennedy Nature Trail the new Eagle Creek Restoration site. Students will work with Field Station Stewards, Emliss Ricks and Jim Tolan. Students may be required to work some weekends and assist other work groups with various projects.

**Eco-management Stewardship Intern (1 stu, 8 wks, 18 May)**

Jim Metzinger (metzingerje@hiram.edu, 330 527-2141, Associate Director, James H. Barrow Field Station) and Jim Tolan, Emliss Ricks (tolanje@hiram.edu rickseo@hiram.edu 330 527-2141, Field Station Stewards, James H. Barrow Field Station)

This internship consists of work related to enhancing the ecological health of the James H. Barrow Field Station. It includes removal of native and nonnative invasive plants, the planting of native shrubs and grasses where appropriate, and monitoring of restoration sites throughout the property. It will include training in the identification of target species as well as training in use of herbicides and proper safety practices. The candidate will be required to work with limited supervision in a variety of weather conditions. Student may be required to work some weekends and assist other work groups with various projects.

**Waterfowl Research: (2 stu, 14 wks, 17 May)**

Jim Metzinger (metzingerje@hiram.edu, 330 527-2141, Associate Director, James H. Barrow Field Station)

**Husbandry and Behavioral Research – 2 students, 14 weeks**

Working with White Winged Wood Ducks and Madagascar Teal, with a focus on husbandry, breeding behavior, pair bonding, brood rearing when applicable, etc.: Research will incorporate use of cameras in the endangered waterfowl facility and will examine the behavioral aspects of nesting and brood rearing of both species. Some students may be selected for a unique opportunity to spend time at Sylvan Heights Waterfowl Center in North Carolina. The selected student/s may receive intensive training in waterfowl husbandry, management and conservation at a world renowned breeding facility. All students will be required to work some weekends for the 14 weeks and assist other work groups with various projects.
*Akron Zoological Park Internship: (1 Student, 12 weeks, ~1 June)*

Intern will assist with animal care, handling, behavioral observations in some animal exhibit areas, animal care for sick or injured animals in the AZP hospital suite, surgical observations and record keeping. Intern will also complete a research project specific to Akron Zoological Park animal collections department or vet department. Research specifics will be determined by AZP/FS management staff. **Student is responsible for own transportation to and from AZP.** (**NOTE:** An interview with AZP Management may also be required for the selection process for this internship. Proof of negative TB and tetanus are required before work can start.) **Three full days per week** will be spent working at the Field Station in Waterfowl Conservation Facility, Wildlife Rehabilitation, Education/Display animal care and general field station duties. In order to qualify intern must have a minimum of 3 months experience working in the Hiram College Waterfowl Conservation Facility. Intern will be required to work at the Field Station a minimum of 5 hours/week for the academic year following the internship. Student will be required to work some weekends for the 12 weeks and assist other work groups with various projects.

*Wildlife Rehabilitation: (4 stu, 14 wks, 17 May)*

Jim Metzinger (metzingerje@hiram.edu, 330 527-214, Associate Director, James H. Barrow Field Station)

*Mediterranean Raptor Center – 2 students for 7 weeks each (14 weeks total)*

Each student will spend seven weeks living and working at Medina Raptor Center (MRC) to receive training and experience in raptor handling, restraint, stabilization, rehabilitation and care of their educational animal collection. The other seven weeks of the summer will be spent working in the Field Station wildlife rehabilitation program, general animal care and work crew duties. **Students will conduct an independent project and prepare a presentation for the fall OWRA conference in Columbus.** Interns will be required to work at the Field Station a minimum of 5 hours/week for the academic year following the internship. Students will be required to work some weekends for the 14 weeks and assist other work groups with various projects. **Your own reliable transportation is required.**

*Penitentiary Glen – 2 students simultaneously for 12 weeks (2 days/week at PG)*

Students will travel to Penitentiary Glenn (PG) in Lake County two full days per week (responsible for own transportation and expense of travel) to receive training in general wildlife rehabilitation, neonate/orphan rearing, emergency stabilization, daily husbandry of educational animals, basic animal training for education programs; 3 days/week will be spent working at the Field Station in the wildlife rehab program, general animal care and general work crew duties. **Students will conduct an independent project and prepare a presentation for the fall OWRA conference in Columbus.** Interns will be required to work at the Field Station a minimum of 5 hours/week for the academic year following the internship. Students will be required to work some weekends for the 12 weeks and assist other work groups with various projects. **Your own reliable transportation is required.**

**Advancement of Gardening, Sustainability and Entrepreneurial Endeavors at the Hiram College Field Station: (1-2 stu, 10-12 wks, May – Aug) Jane O’Brien (obriens@hiram.edu, 330-527-2141, Volunteer & Publicity Consultant at Field Station)**

This project involves increasing the variety and amount of fruits and vegetables planted and harvested in the Field Station gardens. Produce would continue to be used to feed animals in the education/laboratory facility but would also entail selling it in more varied venues such as farm markets. Profits from sales would be used to fund additional gardening projects or other Field Station programs.

Related goals of the project include: continued maintenance of and data collection from the OSU phenology garden with a focus on native pollinators; education of school-age children through a summer gardening camp; maintenance of ornamental plants and beds near the Field Station buildings; and development of a marketing brochure about Hiram College, the Field Station and the gardening project to distribute at sales events.

**Education Interns for Nature Camps, Citizen Science, and Other Projects: (2 stu, 10-12 wks, 18 May – Aug)**

Matt Sorrick (sorrickmw@hiram.edu; 330 569-6003; Colton 204; Director, Science Education)

Education Interns will design, coordinate and teach a variety of camp programs (Nature Camps, Art Camp, and Adventure Expeditions) for children ages 3-18. Nature Camps will have a different format and will target new age groups. Interns will also teach school field trips and travel to Northwoods to support student experiential programs. Additionally, Education Interns will enhance existing Citizen Science projects (ventral pools, terrestrial salamanders, frog & toad calling) and develop new ones (using iPad apps technology) that can extend to classroom and schoolyard use.

**Avian Diversity and Conservation: (2 stu, 10-12 wks, 18 May – Aug)**

Sarah Mabey (mabeyse@hiram.edu; 330-569-5847; Colton 304, Associate Professor, EVST)

Field-based research focused on population monitoring and research questions related to behavioral ecology of the avifauna of the JH Barrow Field Station. Emphasis on migratory birds and conservation issues. Bird research requires willingness to work early mornings and long days under potentially uncomfortable conditions (cold/heat/wet/bugs). Interns will cross train with wildlife rehab and waterfowl research internships. Students will be required to work some weekends for the 10-12 weeks and assist other work groups with various projects.
Butterfly Citizen Science Intern: (1 stu, 10 wks, 1 Jun through Aug)
Jennifer Clark (clarkjm@hiram.edu; 330-569-5315; Assistant Professor, BIOL)
   Butterfly Citizen Science Intern—There are three major goals of this internship: 1. continue weekly surveys of butterfly populations and flowering plant abundance at the Monarch Waystation, restored prairie, and successional old fields at the James H. Barrow Field Station, 2. coordinate the butterfly citizen science project at the field station, and 3. organize the National moth night event in July. This internship will begin June 1st and will last for 10 weeks. The student leading this project will be expected to spend a substantial amount of time each week contributing to the stream projects.

Stream Ecology Intern: (2 stu, 10 wks, 1 Jun through Aug)
Jennifer Clark (clarkjm@hiram.edu; 330-569-5315; Assistant Professor, BIOL)
   Stream Ecology Intern—Summer research will fall under two major categories: 1. sorting and processing invertebrate samples collected from Eagle Creek during summer 2014, and 2. assessing competitive interactions between fish and crayfish in artificial streams. This will include building a large artificial stream. This internship will begin June 1st and will last for 10 weeks. Students working on this project will also be expected to help with weekly butterfly surveys and citizen science efforts at the field station to continue a long-term survey effort.

Genetic Analysis of White-winged Wood Ducks: (1 stu**, 10 wks, mid-May – mid-Aug);
Brad Goodner (goodnerbw@hiram.edu; 330-569-5260; Colton 113; Professor BIOL)
   For over 20+ years the captive population of White-winged wood ducks has become bottle necked. It is time for a new genetic analysis of the population to address the extent of homozygosity in the population. The student working on this project will use PCR and DNA sequence analysis techniques to address this question.

Data entry to Field Station Database and Development of FS Web Page: (1 stu, 8 wks, mid-June)
Ellen Walker (walkerel@hiram.edu; 330-569-5250; 3rd Hinsdale; Professor CPSC & Associate Dean) and Jim Metzinger (metzingerje@hiram.edu; 330-527-2141; Associate Director, James H. Barrow Field Station)
   Over the past three summers a database-backed website has been built and information will now need to be entered into the site. Intern will read, review and scan 35+ years of research into the new system. The intern will also help build a more useful and updated web page for the Field Station. Intern will need to understand scientific documents and able to work with scanning equipment as well as proficient with web page design.
Application for Student Internship/Employment at the James H. Barrow Field Station (FS), Hiram College, 2015

Prepare one Word® file by deleting the pages above, completing this application form, and adding your cover letter as the last page. Submit this Word® document electronically as an email attachment to Jim Metzinger at metzingerje@hiram.edu. Also deliver a paper copy to Vicki Kohn, Faculty Secretary, 116 Gerstacker Hall. Review of applications will begin on 5 March. Label your file as follows: “<YourLastName>_FS2015”, and put “FS2015 Application” in the subject line of your email.

Contact Jim Metzinger by email or phone (metzingerje@hiram.edu; office: 330-527-2141) with any questions.

Name:_________________________ Email:_________________________ Phone #:_________________________

Major(s)/Minor(s):_________________________ Expected Year of Graduation:_________________________

I. Internship(s)/Work you are applying for at FS (check all that apply, and elaborate in a formal cover letter).
(Brief descriptions of these opportunities can be found in the “Call for Student Applications”. Note that many internships require an interview. You will be contacted by a faculty or staff member if this is necessary.)

___ *Stewardship Interns (General FS Duties & Kennedy Trail) ___ *Research Project(s) (List Supervisor(s) in cover letter)
___ *Wildlife Rehabilitation/Waterfowl Interns ___ Eco-management Project

II. Tell us about yourself: Dates Available Summer 2015: ___ Are you eligible for work Study? ___ Yes* ___ or No ___
(**Everyone must apply for work study eligibility by: completing a 2015-16 FAFSA and submitting a summer 2015 financial aid application at the Financial Aid Office (Teachout-Price Hall) or at http://www.hiram.edu/financial-aid/documents-and-resources. Finally, provide a copy of your Summer 2015 Financial Aid Award Letter to Jim Metzinger as soon as it is available.)

a) List courses you took that may be relevant for work at the FS (e.g., ART, BIOL, CHEM, COMM, CPSC, EDUC, ENGL, EVST, NEUR, etc.)?

b) Note with an “x” any field, lab, research and/or practical experience/skills you have from the list below. Add additional items as needed, and be as specific about each experience/skill as possible as you describe/discuss them in your formal cover letter.

<table>
<thead>
<tr>
<th>Natural History &amp; Educational Experience/Skills</th>
<th>Other Experience/Skills Pertinent to FS work</th>
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<tbody>
<tr>
<td>_ species identification (animal/plant/fungus/microbes)</td>
<td>_ carpentry</td>
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<tr>
<td>_ animal care/husbandry</td>
<td>_ maintenance</td>
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<tr>
<td>_ museum and/or educational displays</td>
<td>_ landscaping/farming</td>
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<tr>
<td>_ handling natural history specimens (curatorial work)</td>
<td>_ construction</td>
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<tr>
<td>_ GIS/GPS coursework and/or experience</td>
<td>_ tractor operation/maintenance</td>
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<td>_ computer programs (Word, Excel, Adobe, Publisher, etc.)</td>
<td>_ large mower operation</td>
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<td>_ computer programming (i.e., languages, web design)</td>
<td>_ heavy equipment operation</td>
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<tr>
<td>_ laboratory skills(s)</td>
<td>_ writing/communication/public relations work</td>
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<td>_ other(s):</td>
<td>_ other(s):</td>
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III. List three professional references we may contact about your work experience—include your academic advisor at Hiram.

   a. Name & position of Hiram advisor:
      Contact info (phone & email):
   b. Name, position, and affiliation:
      Contact info (phone & email):
   c. Name, position, and affiliation:
      Contact info (phone & email):

IV. Provide a formal cover letter to: Jim Metzinger, Director, JH Barrow Field Station, Hiram College, P.O. 67, Hiram, OH 44234.

Include the following: a) the project(s) you wish to work on;   b) your interests and motivations for the project(s);   c) your relevant experience;   d) your long-term professional goals;   e) how this internship fits your goals.

PERMISSION: With my signature below I authorize Hiram College school officials (faculty and/or staff) to share, release, or otherwise allow for the inspection, copying or other disclosure, including discussion of, any and all education records pertaining to me for the purpose of this application. My cover letter follows on the next page.

Signature:_________________________ Date:_________________________ (Add your cover letter below.)