

(Drafted by Brian J. MacGowan, February 6, 2015)

## **Purdue FNR Extension Intern in Natural Resources**

Purdue University's Department of Forestry and Natural Resources seeks candidates for extension internship positions. The department extension program has a broad environmental scope including fisheries, forest management, invasive species, urban forestry, sustainability, wildlife, and wood products ([www.ag.purdue.edu/fnr/extension](http://www.ag.purdue.edu/fnr/extension)). Student interns can enhance their career potential through practical, hands-on experience. Our extension internship program can help you:

- Develop leadership and decision-making skills in handling creative challenges
- Gain experience developing extension products including publications, online videos, presentations, and/or more
- Participate in professional development opportunities
- Build professional references and contacts
- Clarify career goals
- Learn from a diverse and experienced group of natural resources professionals

Internships are open to non-Purdue students. Requirements for the position(s) include status as a junior or senior level college student in natural resources or related discipline, minimum 3.0 GPA, evidence of initiative, independence, and commitment to conservation of natural resources. Internships are available summer term (up to 40 hours/wk, up to 8 weeks) with pay at a rate of \$12 per hour. Internship start dates and work hours are flexible depending on the applicant's availability.

### **Application process**

*Before applying, interested individuals should contact prospective extension mentors in the department to discuss project ideas.* A list of potential extension mentors may be found at <https://ag.purdue.edu/fnr/Pages/dirext.aspx>. Mentoring may be sought from an individual extension professional or by a team, whichever is more appropriate to successfully conduct the proposed work. Interested applicants will work together with their mentor to develop the application package and plan for what they will do. Applicants may work on a variety of extension projects that may include extension publications, videos, educational programs, professional development, and more.

*Purdue University is an equal opportunity/equal access/affirmative action employer  
fully committed to achieving a diverse workforce.*

To apply to the Natural Resources Extension Internship program candidates must submit:

- a) names of one or more extension professionals who have agreed to serve as mentors for the proposed project,
- b) a resume,
- c) a proposal drafted in cooperation with the prospective mentor(s) describing the work to be undertaken,
- d) two references, and
- e) a statement of support from the proposed mentor(s) not to exceed one page.

Materials should be submitted via email as a single pdf file to [macgowan@purdue.edu](mailto:macgowan@purdue.edu) with the subject line "Application: Extension Internship in Natural Resources". The deadline for receiving completed applications is **March 1, 2015**.

Applications may propose projects that complement, extend, or synthesize existing efforts and interests of the extension professional (mentor). The proposal must identify the RREA issue(s) and goal(s) (see addendum) to be addressed, describe the objective(s) of the proposed work, describe the methods and timetable used to meet the objective(s), explain the expected results and deliverables, and describe how the impact of the work will be evaluated for each RREA reporting metric. The proposal is limited to three (3) single-spaced pages, not including tables, figures, or references, using one-inch margins and a minimum 11-point standard font.

Applications will be judged on overall quality including applicant suitability, and the merit and feasibility of the proposal. For additional information, please contact Brian MacGowan, Extension Specialist and Co-coordinator of Extension ([macgowan@purdue.edu](mailto:macgowan@purdue.edu)).

### **RREA Background**

The Renewable Resources Extension Act (RREA), Public Law 95-306, was passed June 30, 1978 to address educational needs in managing the nation's renewable resources. Funds are appropriated annually by the Congress and allocated to the various States by U.S. Department of Agriculture under an established formula. RREA funds for Indiana, administered by Purdue University's Department of Forestry and Natural Resources, are used on programs to help woodland and rural landowners enhance forest health and wildlife resources. Read the [2012-16 RREA Strategic Plan](#) for more information about the program.

*The FNR Extension Internship Program is funded by the Renewable Resources Extension Act*

## Section 3

### National Quantitative Indicators (Outputs and Outcomes) for Annual Reporting, By Goal

#### Instructions

- Report indicator data on all Extension projects for which RREA funds were **directly** used for **partial** or **total** program costs.
- Report **as much indicator data as possible** under the issues you have identified and described in the 5-year Plan of Work. You may not immediately have access to all indicator data requested, but begin collecting such data to report in the future.
- If you have additional data that does not match the national-level indicators, do not hesitate to include it in the narrative section of the annual accomplishment report, Popular Report, and/or add it to the National Indicators spreadsheet provided by NIFA.
- RREA institutions are strongly encouraged to allocate 8-10% of RREA funds for program evaluation.

#### Definitions

- **Direct contacts** are people reached through:
  - Face-to-face contact (workshops, field days, conferences, demonstrations, etc.)
  - One-on-one education (office and field visits, phone conversations, e-mail and other electronic consultations)
- **Indirect contacts** are people reached through:
  - Newsletters (electronic, print)
  - Website “hits” and downloads
  - DO NOT INCLUDE: public service announcements, mass media (radio, TV, newspapers, magazines, or billboard announcements).
- **Awareness:** The individual is conscious of something that is relevant but may not have a full understanding of it. For RREA purposes, awareness will be documented through counts of direct and indirect contacts.
- **Knowledge:** The individual has a clear understanding of explicit factual information about a particular topic that they did not have before. For RREA purposes, knowledge is best documented through evaluation with direct contacts.
- **Implementation:** The individual has put into practice on a regular basis, a new technique or innovation that they had not done before. For RREA purposes, intent to implement is not equivalent to implementation. Implementation is best documented through evaluation with direct contacts.

## **GOAL 1: Ensuring Healthy Ecosystems**

### Issue: Invasive Species

1. Number of educational events conducted for forest and range landowners and managers on the environmental and economic impacts of invasive species.
2. Number of direct and indirect contacts who increased awareness of exotic invasive species.
3. Number of forest and range landowners and managers who increased knowledge of at least one exotic invasive species and its control.
4. Number of private landowners and managers and public land users and managers who implemented at least one management program to prevent or control exotic invasive species.
5. Number of acres that received management to prevent or control exotic invasive species on private land.
6. Number of acres that received management to prevent or control exotic invasive species on public land.
7. Number of invasive species related social media products, web-based products, and communication tools.

### Issue: Land Conversion, Fragmentation, and Parcelization

1. Number of educational events conducted for landowners and managers on options to minimize land-use conversion of forest and rangelands.
2. Number of direct and indirect contacts who increased awareness of options to minimize land-use conversion of forest and rangelands.
3. Number of direct contacts who increased knowledge about options to minimize land-use conversion of forest and rangelands.
4. Number of landowners who implemented at least one new practice to ensure the retention of current land uses.
5. Number of acres protected from conversion to ensure retention of current forest and rangeland uses.
6. Number of land conversion, fragmentation and parcelization related social media products, web-based products, and communication tools.

### Issue: Climate Variability

1. Number of educational events for forest and range landowners, natural resource managers, and/or industry clients related to climate science, mitigation and/or adaptation.
2. Number of direct and indirect contacts who increased awareness of climate variability.
3. Number of direct and indirect contacts who increased knowledge of climate variability.
4. Number of climate variability related social media products, web-based products, and communication tools.

5. Number of forest and range landowners, natural resource managers, and/or industry clients who adopt at least one climate adaptation or mitigation strategy.
6. Number of acres of forest and rangeland managed to adapt to or mitigate effects of climate-related disturbances.

Issue: Forest and Rangeland Water and Wetland Resources

1. Number of educational events conducted for forest and range landowners and managers on the value, importance and management implications of wetland resources.
2. Number of direct and indirect contacts who increased awareness of wetland resources.
3. Number of forest and range landowners and managers who increased knowledge of wetland resources.
4. Number of private landowners and managers and public land users and managers who implemented at least one management practice or program with regard to wetland resources.
5. Number of new acres under management for wetland resources on private land.
6. Number of new acres under management for wetland resources on public land.
7. Number of wetland resources related social media products, web-based products, and communication tools.

## **GOAL 2: Enhancing Economic Benefits**

Issue: Economic Opportunities for Individuals and Communities

1. Number of educational events conducted for forest and range landowners and managers on forest, range, fish, and wildlife based income-generating opportunities.
2. Number of direct and indirect contacts who increased awareness of forest, range, fish, and wildlife based income-generating opportunities.
3. Number of direct and indirect contacts with citizens, landowners, and community leaders who increased awareness of the contribution of forest, range, fish, and wildlife resources to local and regional economies.
4. Number of forest, range, fish, and wildlife income-generating businesses created or expanded.
5. Number of new jobs created in forest, range, fish, and wildlife resources.
6. Estimated number of dollars earned or saved by forest, range, fish, and wildlife income-generating businesses.
7. Number of economic opportunity related social media products, web-based products, and communication tools.

#### Issue: Biomass for Energy

1. Number of educational events for forest and range landowners, natural resource managers, and/or industry clients related to the production and use of biomass for energy.
2. Number of direct and indirect contacts who developed an awareness of biomass and bioenergy.
3. Number of direct and indirect contacts who increased knowledge of biomass and bioenergy.
4. Number of new bioenergy enterprises developed, based on biomass use from forest or rangelands.
5. Number of forest or range landowners who have implemented at least one biomass-related management practice.
6. Number of existing companies who have adopted bioenergy as a new energy source, or who have produced energy from forest and range biomass sources.
7. Number of new jobs created as a result of bioenergy enterprises.
8. Number of biomass and bioenergy related social media products, web-based products, and communication tools.

#### Issue: Ecosystem Services

1. Number of educational events conducted for forest and range landowners and managers on ecosystem services opportunities and barriers.
2. Number of direct and indirect contacts who increased awareness of ecosystem services.
3. Number of forest and range landowners and managers who increased knowledge of ecosystem services.
4. Number of private landowners and managers and public land users and managers who implemented at least one management activity with regard to ecosystem services.
5. Number of new acres under production for ecosystem services on private land.
6. Number of new acres under production for ecosystem services on public land.
7. Number of new forest, range, fish, and wildlife ecosystem services businesses created or expanded.
8. Number of new jobs created in forest, range, fish, and wildlife resources based on ecosystem services.
9. Estimated number of dollars earned or saved by forest, range, fish, and wildlife ecosystem service income-generating businesses.
10. Number of ecosystem services related social media products, web-based products, and communication tools.

## **GOAL 3: Enhancing Resource Management on Working Forests and Rangelands**

### Issue: Forest Stewardship and Health

1. Number of educational events conducted for forest landowners and managers on the benefits and opportunities of forest stewardship practices.
2. Number of forest landowners and managers trained to develop forest stewardship plans.
3. Number of direct and indirect contacts who increased awareness of the benefits and opportunities of forest stewardship practices.
4. Number of direct contacts who increased knowledge of the benefits and opportunities of forest stewardship practices.
5. Number of forest stewardship plans initiated, supported or developed with Extension support/involvement.
6. Number of forest landowners who implemented at least one new forest stewardship practice.
7. Number of acres on which forest management was improved.
8. Number of forest stewardship and health related social media products, web-based products, and communication tools.

### Issue: Rangeland Stewardship and Health

1. Number of educational events conducted for rangeland owners and managers on vegetation, water, and animal management on rangelands.
2. Number of direct and indirect contacts who increased awareness of vegetation, water, and animal management on rangelands.
3. Number of direct contacts who increased knowledge of vegetation management, water management, and animal management on rangelands.
4. Number of acres on which rangeland management was improved.
5. Number of range landowners and managers who implemented at least one new range management practice.
6. Number of rangeland stewardship and health related social media products, web-based products, and communication tools.

### Issue: Forest and Rangeland Wildlife and Fisheries Resources

1. Number of educational events conducted for forest and range landowners and managers on wildlife and/or fish habitat management principles and practices.
2. Number of direct and indirect contacts who increased awareness of wildlife and/or fish habitat management principles and practices.
3. Number of direct contacts who increased knowledge of wildlife and/or fish habitat relationships.
4. Number of landowners who implemented at least one new wildlife and/or fish habitat management practice.
5. Number of acres/and or stream miles on which wildlife and/or fish habitat is improved.

6. Number of wildlife and fisheries related social media products, web-based products, and communication tools.

Issue: Food Production, Safety, and Security

1. Number of educational events conducted for forest and range landowners and managers on forest/range related food production (e.g. agroforestry, maple syrup, game fowl, etc.), safety and security principles and opportunities.
2. Number of direct and indirect contacts who increased awareness of forest/range related food production (e.g. agroforestry, maple syrup, game fowl, etc.), safety and security issues.
3. Number of direct and indirect contacts who increased knowledge of forest/range related food production (e.g. agroforestry, maple syrup, game fowl, etc.), safety and security issues.
4. Number of landowners and managers who implemented at least one new forest/range related food production practice (e.g. agroforestry, maple syrup, game fowl, etc.), safety and security practice.
5. Number of food production, safety and security related social media products, web-based products, and communication tools.

Issue: Intergenerational Land Transfer

1. Number of educational events conducted for forest and range landowners and managers related to intergenerational land transfer and estate planning.
2. Number of direct and indirect contacts who increased awareness of forest and rangeland intergenerational land transfer and estate planning.
3. Number of direct and indirect contacts who increased knowledge of forest and rangeland intergenerational land transfer and estate planning.
4. Number of private landowners and managers who prepared plans and/or implemented at least one new practice addressing the threats and opportunities associated with intergenerational land transfer.
5. Number of acres protected from conversion following intergenerational land transfer and estate planning.
6. Number of intergenerational land transfer related social media products, web-based products, and communication tools.

## **GOAL 4: Building Capacity through Enhanced Connections**

1. Number of distinct project/program collaborations with research programs.
2. Number of distinct project/program collaborations with external public and private entities.
3. Number of distance education events (e.g. webinars, podcasts).
4. Number of social media sites developed and managed.
5. Number of multi-state and regional programs and projects.
6. Number of peer-to-peer programs (not individual events), such as Master Woodland Stewards/Managers, Master Naturalist, Covert or other forest and rangeland resource peer-to-peer programs.