

BROADER IMPACTS (UF Outreach Resources section below)

The National Science Foundation (NSF) revised their Merit Review principles & criteria in early 2013, with a major impact on the Broader Impacts (BI) criterion. The Broader Impacts criterion encompasses the potential to benefit society and contribute to the achievement of specific, desired societal outcomes. This criterion is now judged by the same principles and elements as Intellectual Merit, NSF's other review criterion.

The new Proposal & Award Policies & Procedures Guide (PAPPG) adds requirements for assessment/evaluation of broader impacts activities, as well as bringing broader impacts to the forefront of the proposal and reporting process with new formatting requirements.

Excerpted from https://nsf.gov/pubs/policydocs/pappg18_1/pappg_3.jsp -emphasis - added:

Relevant Merit Review Principles:

- All NSF projects should be of the highest quality and have the potential to advance, if not transform, the frontiers of knowledge.
- NSF projects, in the aggregate, should contribute more broadly to achieving societal goals. These broader impacts may be accomplished through the research itself, through activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. The project activities may be based on previously established and/or innovative methods and approaches, but in either case must be well justified.
- Meaningful assessment and evaluation of NSF funded projects should be based on appropriate metrics, keeping in mind the likely correlation between the effect of broader impacts and the resources provided to implement projects. If the size of the activity is limited, evaluation of that activity in isolation is not likely to be meaningful. Thus, assessing the effectiveness of these activities may best be done at a higher, more aggregated, level than the individual project.

The following elements should be considered in the review for Broader Impacts:

1. What is the potential for the proposed activity to benefit society or advance desired societal outcomes (Broader Impacts)?
2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
4. How well qualified is the individual, team, or organization to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home organization or through collaborations) to carry out the proposed activities?

In General:

- Make the broader impacts activity relevant to the research program. You cannot completely outsource this.
- In the same context, DO leverage existing programs on campus (some are described below), but DO NOT make the activities a plug-n-play kind.
- Quantify your activities: for example with recruitment of underrepresented groups, give numbers for what has been accomplished at the college/university level, and what your goal is.
- The BI activities you propose need intellectual input from your research agenda.

External resources:

NSF presentation summarizing the changes:

http://www.nsf.gov/bfa/dias/policy/merit_review/overview.pdf

“Broader Impacts 2.0: Seeing—and Seizing—the Opportunity”:

<https://academic.oup.com/bioscience/article/63/3/153/228104>

UF RESOURCES

Teaching Resources

Natural Area Teaching Laboratory

<http://natl.ifas.ufl.edu/>

The University of Florida Natural Area Teaching Laboratory (NATL) is dedicated to teaching students and the public about ecology and biotic diversity. At the same time we offer family friendly and [K-12 educational](#) opportunities. It consists of 60 acres in two contiguous tracts in the southwest corner of campus. The larger tract, known as NATL-west, has 49 acres and is west of Natural Area/Surge Area Drive. The smaller tract, known as NATL-east, has 11 acres and is east of Natural Area/Surge Area Drive. NATL has significant samples of three upland ecosystems characteristic of north peninsular Florida: *hammock*, *upland pine*, and *old-field succession*. It has a variety of wetland habitats, including a 9-acre *marsh* in NATL-east that drains into a *pond and sinkhole* in NATL-west and a 3-acre *ecologically engineered retention basin* ([SEEP](#)) in the northeast corner of NATL-west. For information on use of NATL in your teaching, see “Users and Uses” in the left sidebar at the above link.

Center of Excellence for Regenerative Health Biotechnology (CERHB)

Education and Training Programs (Biotility) – <http://biotility.research.ufl.edu>

Biotility serves as a resource to expand the state’s bioscience industry workforce capacity, by partnering with industry and educators to develop program curricula and certificate short-courses designed to create a pipeline of employees with skills and competencies leading to multiple career paths.

A primary focus of the talent development is using applications of science to discover, develop, manufacture, and test a product for human use, while transitioning away from the standard of science

as academic research. Students completing the program (secondary, Industrial Biotechnology) have the opportunity to earn an industry-recognized workforce credential; the Biotechnician Assistant Credential.

Biotility's certificate short courses integrate industry concepts and skills into traditional biomedical research, and are offered to educators, undergraduate, and graduate students. The goal is to better prepare students for careers in the bioscience industry, and to enable educators to build career awareness as well as principles of product and process development, biomanufacturing, analytical methods, quality systems, and regulatory compliance into their science curricula.

Biotility functions at the intersection of academia and industry, and is proximal to the cluster of biotechnology companies in the Gainesville/Alachua area. The education and training center includes classrooms, conference areas, a cleanroom simulator, and wet labs outfitted with state-of-the-art equipment. Proximity to Florida's northeast bio-industry cluster facilitates student internships, incumbent employee training, pre-employment training, and participation of industry leaders in course development.

Center for Precollegiate Education and Training (CPET)

<http://www.cpet.ufl.edu>

Dr. Mary Jo Koroly korolymj@ufl.edu

The Center for Precollegiate Education and Training (CPET) is uniquely poised as a University of Florida Center with expertise in research education, outreach, and evaluation. CPET has a 60-year history of partnering with the university community to provide content-rich, immersive STEM experiences and career explorations for K-14 teachers and students and to evaluate the outcomes and impacts of a diverse portfolio of programming.

As part of its UF mission, CPET assists scientists and engineers in developing, implementing, and evaluating research outreach programs and broader impacts activities by providing a well-established infrastructure, deep content and pedagogical expertise, and customized guidance and/or support that result in measurably productive collaborations with departments across campus and schools across Florida.

In addition, CPET administers its own programs in collaboration with more than 400 research faculty annually. Thus, Principal Investigators can choose to partner with CPET and participate in existing, highly-prestigious programs for Florida teachers and secondary school students to broaden the impacts of their research in programs with recruitment, programmatic design, extracurricular support, and evaluation processes already in place. Targeted audiences include underrepresented populations.

UFTeach

<http://education.ufl.edu/uf-teach/>

Dr. Tom Dana tdana@coe.ufl.edu

UFTeach is an education minor at UF offering alternative certification for content area majors in mathematics and the sciences, designed to dramatically strengthen the recruitment and retention of

middle and high school mathematics and science teachers, a critical workforce need in Florida and across the nation. The Florida Department of Education estimates that fewer than 10% of mathematics and science teacher vacancies are filled by current teacher education efforts. Throughout Florida, fewer than 20% of mathematics and science teachers are fully certified in the subjects they teach. UFTeach is an innovative initiative based on the successful UTeach model at the University of Texas-Austin. The program at UF is a semi-finalist in the National Math and Science Initiative (NMSI)/ ExxonMobil competition to replicate UTeach. A grant of up to \$2.4 million for the replication of UTeach, along with the generosity of private donors, is allowing UF to initiate and sustain UFTeach.

Highlights include:

- early and intensive field experiences in real classrooms
- deep-level understanding of mathematics and science content
- deep-level understanding of methods of effectively teaching mathematics and science content
- compact degree plan that allows most students to complete degree and certification in four years
- leveraging public and private funds
- creation of undergraduate minors focusing on mathematics teaching and science teaching
- creation of an unprecedented discipline-specific induction support system for new teachers

Department of Family, Youth and Community Sciences

<http://fycs.ifas.ufl.edu/>

The department offers courses in nonprofit leadership, research methods and design, program development and evaluation and grant writing which can be utilized for broader impacts.

UF Library

The UF Library's Digital Production Services (DPS) hosts the [UF Digital Collections \(UFDC\)](http://ufdc.ufl.edu/) (<http://ufdc.ufl.edu/>), which has millions of pages, hundreds of thousands of items, and over nine hundred collections of primary and secondary research collection materials available for instructors to use in the development of their courses at any level. The UFDC Teacher Resource Collection is a database of original educational materials that can be used in the K-12 classroom. All educational materials within the collection use University of Florida Digital Collections (UFDC) resources as primary required material. Additionally, the Institutional Repository (IR@UF) provides a place for UF Instructors to save and share syllabi for courses created and taught at UF.

The Institutional Repository at the University of Florida (IR@UF) is a digital platform designated as the permanent archive for scholarly works created by individuals in the UF community. Hosted by the George A. Smathers Libraries, works in the IR@UF are open to researchers world-wide, are archived upon submission in three different locations, and are assigned a permanent, stable URL.

Evaluation Resources

Center for Precollegiate Education and Training (CPET)

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Dr. Mary Jo Koroly korolymj@ufl.edu

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CPET supports the research and evaluation of all education, training, and outreach activities, regardless of scale, employing a mixed methods approach. Example methods include: needs assessment studies to inform program development; survey and assessment instrument development; mind and concept mapping for cognitive and affective changes; interviews and focus groups for case studies and ethnographic investigations; content analysis of participant artifacts; and quasi and experimental design.

Collaborative Assessment and Program Evaluation Services (CAPES)

Dr. M. David Miller dmiller@coe.ufl.edu

The mission of Collaborative Assessment and Program Evaluation Services (CAPES) is to provide researchers at the University of Florida with timely and appropriate support for program evaluation and research for educational, training and social science programs. Evaluation services include formative assessments to provide for program improvement and summative assessments to inform accountability. The types of methodological assistance provided by CAPES include:

- comprehensive evaluation planning, implementation, and reporting
- survey development, analysis and reporting
- development of assessments including piloting and psychometric analysis
- advanced psychometric techniques including methods based on classical test theory, item response theory, factor analysis, and generalizability theory
- applied statistical analysis including hierarchical modeling, structural equation modeling, and general linear modeling
- mixed method evaluations

CAPES works with clients to understand their needs and addresses those needs with the support of its staff of evaluators, measurement specialists, and applied statisticians. Services may be provided through cooperative writing and submission of grants or through hourly consulting services.

Department of Family, Youth and Community Sciences

<http://fycs.ifas.ufl.edu/>

The department has several faculty members with evaluation expertise who have experience in development and implementation of evaluation designs and logic models.

Program Development and Evaluation Center (PDEC)

<http://pdec.ifas.ufl.edu/>

Dr. Amy Harder amharder@ufl.edu

Supports Faculty in Programming

- teaches in-service education programs
- assists and organizes needs assessment surveys
- conducts situational analyses using socio-demographic data
- provides guidance in implementing educational programs
- designs frameworks for long-range planning
- develops publications and how-to handouts on programming

Supports Faculty in Evaluation

- teaches in-service education programs
- assists and organizes evaluation surveys
- identifies impact measures and guides impact studies
- develops publications and how-to handouts on evaluation

Enhances Program Quality

- coordinates county program reviews
- uses evaluation data for [demonstrating value](#) to key stakeholders

Maintains State Accountability Data

- coordinates UF/IFAS evaluation and accountability efforts
- designs and assembles POW & ROA databases
- analyzes management data to assess organizational performance
- coordinates the preparation of accountability reports
- researches new model and strategies for accountability systems

Outreach Resources

Center for Precollegiate Education and Training (CPET)

<http://www.cpet.ufl.edu>

Dr. Mary Jo Koroly korolymj@ufl.edu

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CPET promotes and supports K-14 teachers, secondary school students, and the public at-large by providing valuable engagement and access to research faculty and facilities across the University of Florida. CPET hosts and administratively facilitates a wide range of activities including summer research explorations and apprenticeship programs for teachers and students, state and local community outreach (Florida Symposium, workshops on campus or at school sites, festivals, Mini Medical Schools), and innovative on-line curricula, data-bases, and other resources.

Florida Museum of Natural History

<http://www.flmnh.ufl.edu/>

Dr. Bruce MacFadden bmacfadd@flmnh.ufl.edu

Presentation: Broader Impacts and the Museum http://www.research.ufl.edu/research-program-development/research_program_development_docs/Broader%20Impacts%20and%20the%20Museum.pdf

Harn Museum of Art

<http://harn.ufl.edu>

Dr. Eric Segal esegal@harn.ufl.edu, 352-294-7063

As a university art museum dedicated to serving UF and the community, the Harn may be an exciting partner for broader impact outreach efforts. Through our Academic Programs division, and with the support of other departments throughout the museum, the Harn supports the work of faculty, students and staff at UF. The Harn's collection totals more than 10,000 objects including African, Asian, modern and contemporary art, and photography with significant representations of Ancient American and oceanic art, as well as a growing collection of natural history works on paper. The museum offers a robust exhibition schedule and dynamic public programs for university and community audiences. Broader impact opportunities may include activities during Harn Museum Nights (<http://harn.ufl.edu/museumnights>), Faculty Focus exhibitions and museum learning programs (<http://harn.ufl.edu/universityeducators>). We are glad to brainstorm other ways in which the museum can support grant proposals with authentic research/museum connections. Contact Eric Segal, Director of Education and Curator of Academic Programs, to discuss your project.

Center for Undergraduate Research

<http://cur.aa.ufl.edu/>

Dr. Anne Donnelly adonnelly@aa.ufl.edu

Undergraduate research provides opportunities for students to engage faculty, graduate students, postdocs to discover and define scholarly interests. Research experiences can assist students in evolving ideas and deciding on a future career path. The Center for Undergraduate Research can help in making connections between PIs doing research and undergraduates who wish to work on that research.

- [UF Undergraduate Research Database](#)
- [Beckman/Provost's Scholars Program](#)
- [Research Programs](#)

IFAS Extension

<http://solutionsforyourlife.ufl.edu/>

County Extension Offices - <http://sfyl.ifas.ufl.edu/map/index.shtml>

Extension is a partnership between state, federal, and county governments to provide scientific knowledge and expertise to the public. UF, together with [Florida A&M University](#) (FAMU), administers the Florida Cooperative Extension Service.

At the University of Florida, Extension is located in the [Institute of Food and Agricultural Sciences](#) (IFAS), along with the [College of Agricultural and Life Sciences](#) (CALS) and the [Florida Agricultural Research and Education Center](#), and is called UF/IFAS Extension. Extension offices throughout the state and other existing platforms, including the Solutions for Your Life publications website, offer opportunities for broad dissemination of scientific knowledge that will impact the lives of Floridians.

UF/IFAS Center for Public Issues Education

<http://www.piecenter.com/>

Dr. Ricky Telg rwtelg@ufl.edu

The UF/IFAS Center for Public Issues Education conducts and disseminates objective interdisciplinary research and educational programs to increase public understanding of and engagement in agricultural and natural resources issues. The PIE Center responds to the many economic, environmental and social challenges we face by measuring the knowledge, behaviors and attitudes of consumers and constituents. The PIE Center then shares its findings with stakeholders through educational outreach and training programs using cutting-edge technology.

Sustainable UF

<http://sustainable.ufl.edu/>

The mission of the Office of Sustainability is to make the University of Florida - in its operations, education, research, and outreach - a model of sustainability, integrating the goals of ecological restoration, economic development, and social equity. In pursuing this mandate, the Office of Sustainability will encourage and facilitate the collaborative efforts of faculty, students, and staff to generate knowledge, acquire skills, develop values, and initiate practices that contribute to a sustainable, high quality of life on campus, in the state of Florida, and across the globe. Programs include both initiatives to increase the sustainability of UF's practices across its research, teaching, and extension missions as well as outreach efforts to educate the broader community in relevant areas. For more information, please contact Matthew Williams, miwilliams@ufl.edu.

Florida Energy Systems Consortium (FESC) Public Outreach

FESC outreach program leverages the existing network of UF extension offices to reach out to each of our communities. The Florida Cooperative Extension Service has experience developing and delivering educational programs and products related to energy and resource-efficient community development with emphasis on housing. These programs and products include targeted continuing education courses for licensed builders, architects, engineers, landscape architects, interior designers, and others. Also, the UF Program for Resource Efficient Communities is an interdisciplinary group that promotes the adoption of best design, construction, and management practices in new residential master planned developments.

The goal of the program is to develop educational outreach programs and materials designed to deliver practical, applicable information and knowledge on energy-related topics to the general public as well as targeted to specific audiences such as builders, planners, engineers, architects, small businesses, local governments, and utilities through the Cooperative Extension Service and others. By focusing educational programming on climate and efficient use of energy and water, the program aims to provide the knowledge needed by building and energy professionals, local governments, and the general public, to significantly reduce greenhouse gas emissions in Florida.

Some examples of FESC Outreach activities are:

1. **Energy/Climate Awareness fact sheets:** Over 50 fact sheets were developed by Dr. Pierce Jones, Director, Program for Resource Efficient Communities at the University of Florida, and his team. They are posted at <http://floridaenergy.ufl.edu/public-outreach/energy-fact-sheets/>. These publications are also available online through the Energy Education Library, located on the [Florida Department of Agriculture and Consumer Services](#) website. New fact sheet categories/fact sheets are added as they are developed.
2. **Energy Extension Service:** UF/IFAS' Cooperative Extension Service has offices and educational professionals in all of Florida's counties. The fact sheets were shared by public through these offices.
3. **Sustainable FloridiansSM Program :** The mission of the Sustainable FloridiansSM program is to guide Floridians on how to take individual responsibility for protecting Earth's limited resources. Through a discussion-to-action format, the program educates participants about making wise use of resources,

making households and communities more resilient and financially sound, and understanding the impact of individual lifestyle choices. Through the Sustainable FloridiansSM program participants learn that energy is a part of everything we do in our lives. Many consumer-oriented programs advertise solutions to address various challenging consumer needs. Yet, solutions are often only relevant to a specific and temporary point in space. Additionally, true differentiation between a problem and a solution requires reflection and intention. In other words, overcoming constraints and realizing new opportunities necessitates that citizens contemplatively look back and consciously move forward toward goal achievement within their community. In terms of offering “solutions,” the Sustainable FloridiansSM program develops and iteratively refines its curriculum to provide “enablers” and produce “change agents.”

4. **FESC Website** (<http://floridaenergy.ufl.edu/>): The FESC website continues to be an important communication tool to disseminate information. It is updated regularly to remain current and to better serve the users.

Department of Family, Youth and Community Sciences

<http://fycs.ifas.ufl.edu/>

Website provides research-based information, resources, and tips for families, consumers, and educators.

The Digital Production Services

<http://digital.uflib.ufl.edu/>

The University of Florida Digital Collections (UFDC) hosts more than 300 curated digital collections and over 900 general collections, containing over 13 million pages, covering over 78 thousand subjects in rare books, manuscripts, antique maps, children's literature, newspapers, theses and dissertations, data sets, photographs, oral histories, and more for permanent access and preservation. Through UFDC, users have free and Open Access to full unique and rare materials held by the University of Florida and partner institutions.

The George A. Smathers Libraries and Digital Production Services encourage and support faculty collaboration on digital collections and digital scholarship through partnerships on grants, research and publications.

The Digital Production Services department serves as a digitization facility for the George A. Smathers Libraries and is the primary contributor to all of the collections in the UFDC, adding unique collection materials regularly.

The George A. Smathers Libraries established and supports the *IR@UF* in order to offer a central location for the collection, preservation, and dissemination of scholarly, research, and creative production alongside historical materials from the University of Florida. The historical materials provide context for research and researchers, enabling insight into the history, nature, and culture of the University.

The Institutional Repository at the University of Florida (IR@UF) is a digital platform designated as the permanent archive for scholarly works created by individuals in the UF community. Hosted by the

George A. Smathers Libraries, works in the IR@UF are open to researchers world-wide, are archived upon submission in three different locations, and are assigned a permanent, stable URL.

Center of Excellence for Regenerative Health Biotechnology (CERHB)

Education and Training Programs (Biotility) – <http://biotility.research.ufl.edu>

Biotility maintains and administers of the industry-recognized Biotechnician Assistant Credentialing Exam (BACE) nationally and internationally, and works closely with the secondary and postsecondary programs that incorporate the knowledge and skill sets detailed by the exam. Further outreach is achieved via participation on state and national advisory boards, participation in numerous career-awareness activities and presentations, monitoring student outcomes, and the delivery (either on location or in-house) of a variety of hands-on biotechnology lab experiences for all levels (K-16) of students; ranging from learning pipetting skills to performing protein purification. Biotility incorporates the latest molecular biotechnology techniques, and can customize experiences to align with a variety of applications and curricula objectives.

Sea Grant Florida

<http://www.flseagrant.org/>

Florida Sea Grant uses academic research, education and extension to create a sustainable coastal economy and environment. We are a partnership between the Florida Board of Education, the National Oceanic and Atmospheric Administration and Florida's citizens, industries, and governments. Florida Sea Grant's mission is to support integrated research, education and extension to conserve coastal resources and enhance economic opportunities for the people of Florida.

UF International Center

<https://internationalcenter.ufl.edu/>

Office for Global Research Engagement - <https://internationalcenter.ufl.edu/faculty-engagement/international-research>

UF's International Center and the Office for Global Research Engagement (OGRE) is committed to supporting international and cross-cultural research in every discipline by promoting a culture of excellence in the development of international scholarship and education. OGRE supports faculty, staff, and student initiatives in developing programs and disseminating advances in research that further the internationalization efforts of the university. The unit serves as a connector among the many, diverse international research programs at UF promoting and disseminating academic excellence.

OGRE recognizes that engaging in international research expands the UF network, providing access to new, creative, and innovative global opportunities. To advance international research, OGRE engages in outreach activities that support faculty interests in international research; provides workshops on topics in support of international research; offers technical assistance for international research proposals and

projects; leads faculty development programs to facilitate research activity abroad; supports doctoral students to engage in research internationally; and provides funding to faculty for international field work.

Entrepreneurship and Innovation Center

<https://warrington.ufl.edu/entrepreneurship-and-innovation-center/>

<http://www.ufyoungentrepreneurs.org/>

Dr. Jamie Kraft jamie.kraft@warrington.ufl.edu

The University of Florida's Entrepreneurship & Innovation Center (EIC) was established in 2000 in the Warrington College of Business with a campus-wide mission to teach, coach, and inspire students to be entrepreneurial in their lives and pursue opportunities and innovations in the startup, social, and corporate arenas. Through impactful, empowering and transformative courses, degree programs, co-curricular programming, and community engagement activities, EIC serves more than 3,500 individuals and directly facilitates over 50 start-ups per year.

CEI offers five degree and minor programs at the undergraduate and graduate levels, representing a comprehensive set of formal entrepreneurship educational experiences. The curriculum includes more than 25 unique courses in entrepreneurship, some involving multiple sections.

With a strong focus on experiential learning, we expect over 50% of student learning to happen outside the traditional classroom. Toward this end, we coordinate a mix of co-curricular programs, and require all students in our degree programs to maintain entrepreneurial experience portfolios. Examples of our co-curricular and cross-campus programs include:

Gator Hatchery: Offers a professional environment on campus where students can operate ventures while in school. The hatchery accommodates 15 ventures with workstations, computers, phones, copiers, a board room and venture signage.

Women's Entrepreneurship Symposium: The annual symposium attracts hundreds of women to share the empowering potential of entrepreneurship.

Big Idea Competition and Business Plan Lab: Open to all students, the Big Idea Business Plan Competition unfolds over four months, with more than 250 teams annually, and entries eventually cut to the sweet sixteen and final four. Finalists present before nationally prominent entrepreneurs and investors. Awards include \$25,000 (first place), \$10,000 (second), \$5,000 (third), and \$1,000 (fourth) and smaller cash prizes for the top technology and top social ventures.

JumpstART Design Thinking: JumpstART is a program that empowers students in arts, engineering, and entrepreneurship through collaborative exploration, discovery, divergent thinking and professional mentorship. It is supported by the College of the Arts, the UF

Entrepreneurship & Innovation Center, and the UF Engineering Innovation Institute. Special support is also provided by Duane Bray and IDEO.

Student Entrepreneurship Club: Open to all UF students, the E Club provides access to entrepreneurial resources, networking with successful entrepreneurs, and a forum to share ideas.

TEDxUF: Each year EIC works with a student team to organize the TEDxUF program in partnership with the global TED organization, and opens the event to the community, annually attracting more than 1,500 attendees.

CEI Entrepreneurs-in-Residence: Each semester we host a distinguished Entrepreneur-in-Residence who meets with students, mentors student ventures, provides guest lectures and otherwise support our programs.

Entrepreneurship Faculty Fellows: The Faculty Fellows Program offers an opportunity for faculty from any academic area on campus to be jointly appointed to CEI. Fellows are appointed for 2-3 years to work on research, curriculum development or outreach initiatives that link entrepreneurship to their home discipline, and financial support is provided.

Silicon Valley Immersion Program: Each year we take 25-30 students to Silicon Valley for an immersive experience involving alumni entrepreneurs, venture capital firms, and exposure to the ecosystem.

We are also passionate about contributing to the entrepreneurial community, and enabling students to learn through such engagement. These efforts include local, regional, national and international outreach programs:

Young Entrepreneurs for Leadership & Sustainability (YELS): YELS brings top high school students from across the country to campus for a total emergence into topics related to entrepreneurship, leadership and sustainability. Highly experiential, students get college credit, and this award winning program is carbon neutral and finds the students engages in hundreds of community service hours.

Gainesville Entrepreneurship & Adversity Program (GEAP): An integrated, multi-faceted program to empower those living in poverty or adverse circumstances to create and grow their own businesses. Local entrepreneurs are assisted over 12 months with training, consulting, mentoring, micro-credit and in-kind resources.

National Disabled Veterans Entrepreneurship Program (VEP): VEP helps disabled veterans from across the country start and grow their own ventures. All costs to the veterans are covered through private donations. The program includes 5 weeks online, 8 intense days at UF and 7 months of mentoring.

GatorNest: Students spend an immense amount of time focusing on business theory but often lack the opportunity to apply this theory in a real-world environment. Students enrolled in the GatorNest course are given the chance to engage their analytical and creative skills and apply them in unscripted situations, ultimately enhancing the learning process while creating value-add solutions to problems facing early-stage ventures. Approximately 25-30 projects are completed per year.

Women's Collaboratory: Located in the UF Innovation Hub, [the Collaboratory for Women Innovators](#) seeks to inspire, educate, and empower women to attain leadership in all phases of the innovation lifecycle. Programs and resources will support women starting their own companies, as well as to increase participation of female inventors/researchers.

UF Center for the Humanities and the Public Sphere (CHPS)

<http://www.humanities.ufl.edu>

The CHPS supports faculty, staff, and graduate students doing research in or linked to the humanities to develop programs and activities that reach beyond individual disciplines and into the community in which we live and teach. The CHPS maintains several funding programs that enable faculty to explore the broader impacts of their work, particularly the **Interdisciplinary Team-Teaching Program in the Humanities**, **Library Enhancement Grants** (which can be used to create digital projects and databases), the **Support for Workshops and Speaker Series**, and **Programs in the Public Humanities Grants**, (which offers funds to teams of UF and community collaborators to support community-focused humanities projects). More information about these opportunities can be found at:

<http://www.humanities.ufl.edu/proposals.html>.

Since 2009, the University of Florida is proud to be a member-institution of [Imagining America \(IA\)](#), a nationwide consortium of colleges and universities committed to strengthening public scholarship and practice in the arts, humanities, and design. In support of this mission, the CHPS gathers resources to assist faculty interested in doing work in the **Public Humanities** (<http://www.humanities.ufl.edu/public-humanities.html>) and in the **Digital Humanities** (<http://www.humanities.ufl.edu/digitalhum.html>).

We are also happy to help faculty outside the humanities identify potential research partners for grant proposals, research projects, and team-teaching initiatives. This includes scholars interested in exploring the humanities dimensions (e.g., history, culture, ethics, theory, or criticism) of the sciences, engineering, business, law, agriculture, or other research areas. We are currently affiliated with several cross-college working groups, including [Environmental Humanities](#), [Digital Humanities](#), and [Medicine and Culture](#).

NSF-Funded Outreach Programs

Research Experiences for Undergraduates (REU)

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&org=NSF

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. REU supplements are available for many NSF funding mechanisms; consult with your NSF program officer for details.

UF offers REU programs in the following areas:

- Chemistry: <http://www.reu.chem.ufl.edu/>
- Physics/Materials Science: <http://www.phys.ufl.edu/REU/>
- Gravitational Physics (International REU): <http://www.phys.ufl.edu/ireu/>
- Marine Bioscience: <http://reu.whitney.ufl.edu/>
- College of Engineering (Contact Elliot P. Douglas: edoug@mse.ufl.edu)

Contact the individual programs for more information.

See also: <https://cur.aa.ufl.edu/resources/uf-summer-research-experiences/>

Center for Precollegiate Education and Training (CPET)

<http://www.cpet.ufl.edu>

Dr. Mary Jo Koroly korolymj@ufl.edu

CPET research education and outreach programs include (1) mentored research opportunities for talented high school students and teachers; (2) multi-disciplinary content-rich laboratories and classroom follow-up for in-service teachers; (3) integrating research processes and product knowledge with national education standards to increase STEM literacy and workforce/career preparation for all students; (4) opportunities for professional development in teaching, communication, and public outreach for graduate students; and (5) assistance in developing and conducting measurably effective educational outreach to broaden the impacts of faculty research. CPET currently is working with 30 UF research faculty members on NSF CAREER and other federal proposals/grants.

Recruitment/Retention of students in groups traditionally underrepresented in STEM disciplines

Refer to document: [Recruitment & Retention Resources to Enhance Diversity](#)