






NSF GRFP Broader Impacts: Activity Planning Sheet

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These are illustrative activities that can lead to "desired societal outcomes"

	Past Audiences & Activities	Number Reached & Results	<i>Proposed</i> Audiences & Venues	<i>Proposed</i> Aims & Intended Outcomes
 <p>Partnerships w/ industry & others</p>				
 <p>Activities for well-being of society</p>				
 <p>Engaging diverse audiences</p>				
 <p>Activities that improve public scientific literacy</p>				
 <p>Global issues & collaborative efforts</p>				
 <p>Educate policy makers about BI</p>				
 <p>STEM Teaching Mentoring Outreach</p>				

10 Strategies for Planning Broader Impacts Activities

- Strategy 1: Learn more about the National Science Foundation**, the two review criteria, and the Graduate Research Fellowship program. The Broader Impacts criterion is clearly reflected in the NSF's mission statement, strategic plan, and GRFP goals. In sum, the GRFP program seeks to invest in **individuals** who show leadership potential; a willingness to integrate science concepts into educational efforts; provide service and help society; and proactively work with people from diverse backgrounds in various types of settings.
- Strategy 2: Talk with mentors.** Talk with your mentor(s) about the societal benefit(s) of your research, including the potential for long range impact. Tell them about your plans to apply for the GRFP and ask for advice: How can I strengthen my broader impacts on society? Ask how to launch a BI activity on campus - or collaborate with an existing effort. Learn how to get better engaged with international researchers. Together, think creatively on how to engage people from diverse populations in your proposed research project. Inquire if you can contribute to a policy paper or presentation for government leaders.
- Strategy 3: Talk with current NSF investigators on campus.** Ask: How have you addressed the BI criterion in NSF grant proposals? How do you engage people from diverse populations? How can we work together on a broader impact activity? How can I get involved in current BI activities in our community? The next time you plan a NSF grant proposal, may I observe your process?
- Strategy 4: Consider technology and social media.** How can you teach others about your research via a web site, blog, web cam, app, e-materials, wiki, webinars, videos, or chats? (Hint: Collaborate with other students who have the skills to assist you with the technology!) Can you use technology to engage with international researchers (e.g., cloud computing)? How can you reach people from diverse populations with social media – perhaps through community groups, schools, or organizations? Also consider how you will reach people who do *not* use technology.
- Strategy 5: Identify specific target groups for outreach and education efforts.** Politicians. Science writers. School teachers. Civic clubs. Youth groups. New college students. Donors. Alumni. Faculty retirees. Participants in summer research. Bridge programs. Veterans. People with disabilities. Racial and ethnic minorities. Girls interested in STEM. VISTA/ Peace Corps volunteers. Teach for America. People who live in low income areas or developing countries.
- Strategy 6: Identify public venues & events for outreach and education initiatives.** Libraries. State capitol. State fair. Community events. K-12 classrooms. Community colleges. Day camps. Senior citizen housing. Adult learning centers. Juvenile-at-risk programs. Book stores. Career fairs. Interdisciplinary conferences. Poster sessions.
- Strategy 7: Improve your cultural competence.** Talk with your mentor about collaborating with a researcher in another country with similar research interests - initiate contact. Collaborate with a student, postdoc or faculty member from another country. Network at professional conferences with international researchers. Attend lectures, seminars, and webinars by international speakers. Obtain a travel grant for study abroad or overseas research and make the most of your stay! Identify how your proposed research may make a difference *beyond* the US. Assist an international students' group. Become an English tutor or conversation partner with someone from another country.
- Strategy 8: Become a scientific leader.** Develop your leadership skills. Complete a self-assessment of your abilities at your career services office to identify your strengths as well as what skills you need to improve. Actively seek opportunities to become a leader on campus and in your community. Lead peer lab teams. Read the NSF news to learn how STEM leaders get engaged. Conduct a literature review on STEM leadership. "Job shadow" a leader on campus or industry leader; identify the traits and skills of a scientific leader. Launch an innovative science or engineering initiative and track your results. Become an officer in the student division of a national professional organization. Complete a leadership short course, camp or seminar. Study leadership theories (e.g., servant leadership) then practice skills.
- Strategy 9: Become a STEM mentor.** Improve your cultural competence. Collaborate with a student, postdoc or faculty member from another country. Network at professional conferences with international researchers. Attend lectures, seminars, and webinars by international speakers. Obtain a travel grant for study abroad or overseas research and make the most of your stay! Identify how your proposed research may make a difference beyond the US. Assist an international students' group. Become an English tutor or conversation partner with someone from another country
- Strategy 10: Volunteer.** Identify how you can use your talent and energy to help others. Think nonprofit or public service work– especially women, racial and ethnic minorities, persons with disabilities, or veterans. Credit-based service learning is another option. Get involved! Collaborate with students from other disciplines (e.g., music, art, convergence journalism) to devise innovative strategies for sharing research findings with school teachers, nonprofit groups or service organizations.