**Agenda & Resources**

1. **The process of creating the education component**
   * Allow more time for writing the education component than the research component
   * Develop partnerships early (you'll need their support and help)
   * Have an evaluation plan
     + Speak with STEM Center staff: <https://stem.colostate.edu/contact-us/schedule-consultation/>
2. **The integration of research and education (broader impacts) of funded CAREER grants**
   * **Aditi Bhaskar**
     + ***Research***: predict the effects of urban irrigation efficiency on streamflow and ultimately contribute to the goal of thriving, sustainable semi-arid communities.
     + ***Broader Impacts/Education connection***: US water workforce is aging and not reflective of urban communities, both barriers to holistically addressing urban water management. To enhance capacity of semi-arid urban areas to manage scarce water resources, propose to diversify the Colorado urban water workforce by focusing on retention of URM students through mentorship, hands-on urban water research, and the development of equity-focused water course materials.
   * **Seth Davis**
     + ***Research***: Identify controls over conifer tree defenses and develop a new theory in chemical ecology.
     + ***Broader Impacts/Education connection***: Partner with Poudre School District Work-Based Learning program to offer URM high school students summer research internships. Students are mentored by graduate students in the lab.
       - [Article](https://stem.colostate.edu/a-csu-forestry-researcher-provides-college-and-career-readiness-to-area-highschooler/) about this program
       - More information on Work-Based Learning: <https://stem.colostate.edu/wbl/>
   * **Tim Covino**
     + ***Research***: Determine how forest land cover and watershed structure interact to control dissolved organic matter character and concentration.
     + ***Broader Impacts/Education connection***: Vertically integrated program of mentorship, education, and research that encourages URM to pursue STEM education and careers. Train undergraduate students, collaborate with College of Natural Science Education and Outreach Center to develop STEM kit on watershed science. <https://www.cns-eoc.colostate.edu/>
3. **Brainstorming Session - Let's start having you think through your educational plans by answering some questions**

             (see ‘Questions for BI development’ document)

* Other Partnerships:
  + Citizen-science: <https://citsci.org/>
  + City of Fort Collins Utilities: <https://www.fcgov.com/utilities/community-outreach>, contact = Kellie Gorman, kgorman@fcgov.com. Kellie knows the STEM Center folks, so feel free to name drop, or we can also make the introductions for you.
  + Nancy Richardson design center (<https://www.chhs.colostate.edu/rdc/>). They have many RDC Core Faculty members from all over CSU - see if you know someone already.(<https://www.chhs.colostate.edu/rdc/about/our-people/rdc-core-faculty/>). If you don't know anyone the STEM Center can make introductions.
  + CSU SPUR (<https://csuspur.org/>), a free educational destination in Denver, open year-round to the public and focused on engaging K-12 students, families, and visitors around the topics of food, water, and health. The Vida building, focused on animal and human health is currently open. Terra is planned to open June 2022, and Hydro Jan 2023. If you are interested in developing a partnership with SPUR, the STEM Center can make introductions.
  + TeachEngineering: STEM Curriculum for K-12. Experts, like yourself, create curriculum that is aligned with state standards, and it is reviewed and published by experts. Developed and maintained by CU-Boulder with NSF funding.

﻿﻿<https://www.teachengineering.org/>

* + Other CSU folks interested in engagement - check out the STEM Community Directory for a list of names and their area(s) of expertise, and also considering adding yourself to the directory - <https://stem.colostate.edu/community/>
  + Teacher in Partnership Summer Program (under development), please complete a survey about what you would like to see from this program. <https://colostate.az1.qualtrics.com/jfe/form/SV_5z5zZgklPYNw7hs>