

**Strategic Networks and Initiatives Program
(SNIP)
2020/2021 Request for Proposals**

Overview

The College of Agricultural Sciences (CAS) Office for Research and Graduate Education invites proposals for **Strategic Networks and Initiatives Program (SNIP)** grants to be awarded at three levels in 2020/2021. SNIP provides support for faculty-driven, interdisciplinary initiatives at the vanguard of agricultural and natural resources research. At all levels, funding will be awarded to collaborative interdisciplinary teams seeking to investigate focused research problems in **pursuit of large-scale extramural grant opportunities.**

The goal of SNIP is to offer ambitious CAS faculty members the opportunity to explore novel research problems. The primary aims of the program are to help faculty to ***build a network of colleagues*** and ***form an area of strength in the college*** for transformative research. The three SNIP levels are tailored to assist teams at different points in the process of pursuing large-scale extramural grant opportunities. SNIP provides funds for network-building activities and preliminary work that are typically during the discovery phase of a project and often not allowable on extramural grants, including (but not exclusively) exploring the potential of a research problem, engaging in team-building activities, and collecting preliminary data.

Contact Dr. Gretta Tritch Roman (gst118@psu.edu), Research Initiatives Associate, for assistance with the development of proposals and questions related to the program.

Awards Structure

Level I Launch Grants

Up to **\$10,000** for one year to support the initial development of an innovative research question and the formation of an interdisciplinary collaborative team required to address it.

Level II Pursuit Grants

Up to **\$25,000** for two years to strengthen established interdisciplinary research initiatives to be competitive for large-scale extramural grant submissions.

Level III Cohort Grants

Support for **3-5 new Ph.D. students** for up to two years to provide established interdisciplinary research initiatives with the opportunity to build interactive graduate student-faculty teams who will pursue extramural funding.

Eligibility

1. For all levels, projects must seek to address a critical research need and opportunity beyond the scope of a single laboratory or investigator's focused area of research. All proposed research projects must require the participation of interdisciplinary collaborators with complementary fields of expertise. All ideas for multidisciplinary topics are encouraged.
2. For Level I grants, a plan for engaging multiple departments is required, but all team participants do not have to be identified in the proposal. The primary investigator (PI) must have a faculty appointment in CAS.
3. For the current cycle, Level I and Level II SNIP grants can also be expanded to initiate collaborations with investigators from other colleges at Penn State. Cross-college collaborations require written support and prior approval for the cost share (if funds are necessary for supporting non-CAS personnel) from the associate dean for research of the collaborating unit. Applicants are encouraged to initiate these discussions well in advance of the full proposal submission deadline.
 - a. Preliminary prior approval for this match has been granted by the College of Information Sciences and Technology (Prasenjit Mitra, Associate Dean for Research) for Level I and Level II match.
4. For Level II and Level III grants, teams must include at least three persons with faculty appointments and across different departments. Team members should be from at least two different departments in CAS. See specific proposal requirements below. Faculty from any college at Penn State may be included as participants; however, SNIP funds cannot be used to support any non-CAS personnel. The primary investigator (PI) must have a faculty appointment in CAS.

Two-Phase Application Process

Phase 1 Concept Note Submission: Level I (strongly encouraged); Levels II and III (required)

Submit a short concept note for proposals (max 300 words) using the online submission portal at <https://sites.psu.edu/casgrants/home/snip/concept> by **September 4, 2020**.

Include the following in the note:

- 1) The level of SNIP grant to be pursued (Level I, II, or III) and indicate intercollege collaboration if applicable;
- 2) A brief summary of the research problem and why an interdisciplinary team is required to address it;
- 3) Expected outcomes and duration of the grant (within the limitations outlined in the summaries on the first page of this RFP).

Phase 2 Full Proposal Submission

Full proposals must be submitted as a unified PDF by 5:00 pm on **September 30, 2020**, to the Office of Research and Graduate Education using the online submission portal at <https://sites.psu.edu/casgrants/home/snip/proposal>.

Specific requirements for each grant level are below.

Level I Launch Grants

Up to \$10,000 for 1 year of support

Launch Grants will provide support for the initial development of an innovative research question and the formation of an interdisciplinary collaborative team required to address it. Funds will be awarded to support team-building activities aiming to establish research trajectory, refining research goals and objectives, promoting networks across departments in the College of Agricultural Sciences and the University, defining leadership, structuring the collaboration, and identifying potential extramural funding sources. The activities could include group meetings, seminar series, small workshops, grant writing workshops, and others. The majority of SNIP grants awarded in FY 2020/2021 will be Launch Grants.

Specific proposal requirements for Launch Grants (concept notes encouraged)

PROPOSALS MUST BE SUBMITTED AS A SINGLE PDF AND FOLLOW THE FORMAT BELOW

A. Title, Thematic Area, Primary Investigator

- a. Designate only one PI who will serve as the primary contact for the project (PI must be a faculty member in the College of Agricultural Sciences).

B. Summary (200 words maximum)

- a. Summarize the research problem and the proposed activities aiming to build the team and/or the collaborative network.

C. Proposal Narrative

- a. Refining the Problem
 - i. State the research problem and the significance of the work for the future of agricultural and natural resources research.
 - ii. Describe the proposed activities that will help to formulate the research problem more clearly as an initiative and position it as an area of strength in the college.
- b. Plan for Building the Team
 - i. Why does this problem require the collaboration of an interdisciplinary team to address it?
 - ii. What are the proposed team-building activities that will promote networking across departments in the College of Agricultural Sciences, and (if applicable) across colleges at Penn State?
 - iii. Which disciplines do you anticipate being integral to the initiative and how do you propose to engage current and new participants?
 - iv. Describe the proposed structure of the initiative's leadership and collaboration.
- c. Sustainability Plan
 - i. Provide benchmarks that will be used to identify the progress in launching the initiative during the funding period.
 - ii. Provide a plan for continued collaboration including, and when appropriate, how the proposed activities would lead to a Level II proposal.

D. Budget and Justification

- a. Include a detailed budget justification, providing a brief description and explanation of need for costs associated with Launch Grant activities. Use the following budget sections as a guide:
 - i. *Personnel* (fringe benefits ARE REQUIRED in personnel costs)
 - ii. *Travel* (for invited guests)
 - iii. *Meeting expenses and meals*
 - iv. *Honoraria* (Honorarium payments are limited by the University to \$1,000 or less. If payment to a visiting faculty member or other individual for speaking will exceed \$1,000, payment can still be made, but must be identified as a Personal/Professional Service, and the [University Scholar Agreement](#) must be completed.)
 - v. *Purchased Services* (e.g. AV for conferences, analysis of samples)
 - vi. *Collaborating college commitment* if applicable (e.g. all non-CAS personnel, research expenditures in non-CAS labs)
- b. All other project costs typically allowed by federal extramural sponsors are allowed in this program.
- c. SNIP funds cannot be used for:
 - i. Faculty salaries (including supplemental) or standing appointment salaries
 - ii. Travel to professional meetings
 - iii. Support of personnel NOT in the College of Agricultural Sciences
- d. Budgets can be constructed for **a maximum of 1 year**.
- e. Please note that submissions to this internal competition do not require the budget to be created through the College's Grants and Contracts Office.
- f. Funds from this program must be expended within one year of the award date.

E. Letter of Commitment for Cross-College Teams (if applicable)

- a. Proposals with cross-college collaborations must provide a letter of commitment from the unit's Associate Dean of Research, confirming their unit's support.
- b. Preliminary prior approval for match has been granted for collaborations with faculty in the College of Information Sciences and Technology.

Level II Pursuit Grants

Up to \$25,000 for 2 years of support

Pursuit Grants will provide support for strategic research initiatives that are competitive for **large-scale extramural grants**. Eligible interdisciplinary teams should be able to demonstrate ongoing research, clear research goals, and established partnerships. The funding could be used to collect preliminary data to strengthen the proposal(s) or for other activities aimed at submitting a proposal for significant extramural grants by the end of the SNIP grant term.

Specific proposal requirements for Pursuit Grants (concept notes required)

PROPOSALS MUST BE SUBMITTED AS A SINGLE PDF AND FOLLOW THE FORMAT BELOW

A. Title, Thematic Area, Primary Investigator

- a. Designate only one PI who will serve as the primary contact for the project. (PI must be a faculty member in the College of Agricultural Sciences.)
 - i. Note: Include list of co-PIs and other participants in section D (described below).

B. Summary (200 words maximum)

- a. Summarize the established research initiative or collaborative project and the proposed plan to develop and submit a proposal for large-scale extramural funding.

C. Proposal Narrative

- a. Description of the initiative and future directions:
 - i. Provide a brief description of the initiative/team.
 - ii. State and explain the significance of the research with particular attention to how the research is transformative and addresses a critical research need with potential to be competitive for large-scale extramural funding.
 - iii. Describe past activities that shaped the interdisciplinary collaboration.
 - iv. Describe the current and future research goals of the initiative/team.
 - v. Describe the plan and the target program for external funding (include the following: agency, request for proposals, submission deadline).
 - vi. Describe the proposed activities that will support the submission of (a) proposal(s).
 - vii. Provide benchmarks that will be used to measure the progress of the project during the funding period.
- b. **College readiness**
 - i. What key strengths in the college will contribute to success?
 - ii. What gaps in the college create a need for the initiative?
 - iii. How will the proposed activities address the gaps and capitalize on the strengths?
- c. **Benefits to the College and University:**
 - i. What impact will the project have on the stature and visibility of the college and university?

- ii. What will be the lasting effects of the network or initiative?

d. Sustainability plan:

- i. Provide a plan for the future of the initiative or the collaborative research with benchmarks beyond the funding period.

D. Project team (2-page maximum, individuals can participate in multiple proposals):

- a. The team must include at least three CAS members: the PI and two or more co-PIs, preferably all from different CAS departments. At a minimum, team members should represent at least two different departments in CAS. Extraordinary exceptions will be considered with a strong justification that three or more distinct disciplines from CAS are represented within the team.
- b. Faculty from any college at Penn State may be included as participants (be sure to note the budget restrictions and commitment requirements outlined below).
- c. List all team members with their departmental affiliations and describe the role and responsibilities of each project team member, including how the expertise of each is required to address the proposed research problem.
- d. Describe a plan to include additional faculty in the network, initiative, or project.

E. Budget and Justification

- a. Include a detailed budget justification, providing a brief description and explanation of need for costs associated with Pursuit Grant activities. Use the following budget sections as a guide:
 - i. *Personnel* (Fringe benefits ARE REQUIRED in personnel costs.)
 - ii. *Travel* (for invited guests)
 - iii. *Meeting expenses and meals*
 - iv. *Honoraria* (Honorarium payments are limited by the University to \$1,000 or less. If payment to a visiting faculty member or other individual for speaking will exceed \$1,000, payment can still be made, but must be identified as a Personal/Professional Service, and the [University Scholar Agreement](#) must be completed.)
 - v. *Purchased Services* (i.e. AV for conferences, analysis of samples, etc.)
- b. All other project costs typically allowed by federal extramural sponsors are allowed in this program.
- c. SNIP funds cannot be used for:
 - i. Faculty salaries (including supplemental) or standing appointment salaries
 - ii. Travel to professional meetings
 - iii. Support of personnel NOT in the College of Agricultural Sciences
- d. Budgets can be constructed for **a maximum of 2 years**.
- e. Please note that submissions to this internal competition do not require the budget to be created through the College's Grants and Contracts Office.
- f. Funds from this program must be expended within two years of the award date.

F. Letter of Commitment for Cross-College Teams (if applicable)

- a. Proposals with cross-college collaborations must provide a letter of commitment from the unit's Associate Dean of Research, confirming their unit's support.
- b. Preliminary prior approval for match has been granted for collaborations with faculty in the College of Information Sciences and Technology.

Level III Cohort Grants

Up to 2 years of support for 3-5 new Ph.D. students

Cohort Grants will provide support to established interdisciplinary research initiatives by sponsoring cohorts of **Ph.D. students** recruited to conduct interconnected and innovative research. This program is intended to build interactive graduate student-faculty teams that will pursue extramural funding. Cohorts may be composed of a minimum of 3 and a maximum of 5 newly enrolled students for their first two years of a CAS or CAS-affiliated doctoral program. **Master's-level students are not funded through this program.**

Cohort Grants awarded in 2020/2021 will support the 3-5 **newly enrolled Ph.D. students** by providing ½-time graduate assistantships (Grade 12) plus GIA for 2 semesters/year, beginning Fall semester 2021 and ending Spring semester 2023. A plan for summer stipend support and continuation of stipend and tuition funding after the two years for these new Ph.D. students is required.

Specific proposal requirements for Cohort Grants (concept notes required)

PROPOSALS MUST BE SUBMITTED AS A SINGLE PDF AND FOLLOW THE FORMAT BELOW

A. Title, Thematic Area, Primary Investigator (PI), co-PIs

- a. Designate only one PI who will serve as the primary contact for the project. (PI must be a faculty member in the College of Agricultural Sciences.)
- b. List names and affiliations of co-PIs

B. Summary (200 words maximum)

- a. Summarize the research initiative, the training concept, and the activities aiming to build the student-faculty team.

C. Proposal Narrative (5 pages maximum, not including letters of support)

- a. Overview of the existing strategic network and/or interdisciplinary team:
 - i. Describe the team research goals.
 - ii. Describe ongoing research activities related to the project.
 - iii. Describe the impact of the work on the stature of CAS research.
- b. Project Team:
 - i. Identify the team members (must involve multiple CAS departments).
 - ii. Identify proposed major CAS faculty advisors for the students.
 - iii. Identify participating graduate programs (students in IGDP programs with CAS advisors are allowed).
- c. Student cohort recruitment plan for new Ph.D. students (this program provides funding only for **newly recruited** graduate students in a doctoral program and must be applied to their tuition and graduate assistantship stipends during the first two years of their studies):
 - i. Indicate the proposed number of students to be recruited for the cohort.
 - ii. Describe the composition of the cohort, including the training and synergism concept.

- iii. Describe the approaches to recruit new students.
- d. Proposed activities:
 - i. Describe specific collaborative team activities that will engage students beyond individual laboratory affiliations.
 - ii. Describe the proposed student research topics and their integration into the long-term goals of the team.
 - iii. Provide benchmarks identifying the progress of the entire project, including specific benchmarks pertaining to individual student projects.
- e. Sustainability plan:
 - i. Identify current sources of funding for summer salary and programmatic needs.
 - ii. Identify specific extramural sources that will be pursued for stipend/tuition support after the two-year funding period (include the agency, request for proposals, submission deadline, etc.).
 - iii. Describe a contingency plan if the extramural funding is not secured.

D. Letters of Support

- a. Provide appropriate letters of support from department heads or IGDP directors of graduate programs for the proposed activities of the graduate student cohort.
- b. Commitments for additional funding from departments are not necessary, unless they are part of the contingency plan.
- c. Programmatic assistance with graduate student recruiting efforts would strengthen the proposal.

E. Other Guidelines

- a. Students must be enrolled and registered full-time in the College of Agricultural Sciences or CAS-affiliated Ph.D. program and be mentored by a CAS faculty member.
- b. Funding will be allocated for enrolled students only during the semesters requested in the proposal. There is no carry-over of funds in this program beyond the two-year period (Fall 2021 through Spring 2023).
- c. Any modifications/deviations from this request will only be given in special circumstances. Requests must be submitted for prior approval in writing and will be dependent on the availability of funds. Cohort Grants cannot be postponed until the student's third year or later. For instance, should a student receive recruitment awards from the University or Graduate School, the SNIP award cannot be applied to the student's tuition or graduate assistantship beyond the student's second year of the Ph.D. program.
- d. Top-ups from other sources to higher grades are permissible. Note that this pay grade may require a top-up to match other assistantships in your program. The source of top-up funds should be explained in the body of the proposal and confirmed in accompanying letters.

Proposal Review Process

Level I

- Proposals will be evaluated by program administrators within the CAS Office for Research and Graduate Education. Proposals that engage faculty in other colleges will be evaluated by program administrators in coordination with appropriate administrators from the collaborating college(s).
- Evaluation criteria:
 - Demonstrates the potential for developing an advanced agricultural and natural resources research question.
 - Presents a convincing argument for the requirement of an interdisciplinary team to address the research problem.
 - Outlines specific activities to achieve the following:
 - formulate the research problem more clearly as an initiative (working group meetings, workshops, etc.);
 - promote networking across departments in the College of Agricultural Sciences (may include multi-disciplinary seminars, symposia, etc.) beyond one or two related disciplines.
 - Identifies specific disciplines needed for the collaboration and provides plans for targeting and engaging faculty in the activities.
 - Outlines specific benchmarks to gauge progress in launching the initiative during the one-year funding period.
 - Includes plans for continuing the collaboration beyond the Level I funding and, if appropriate, how the proposed activities would lead to a Level II proposal or potential extramural funding sources.

Level II

- Proposals will be evaluated by a review panel who will make funding recommendations to the CAS Associate Dean for Research and Graduate Education.
- Proposals from research teams established through SNIP grants are encouraged, but previous or current SNIP funding is not required.
- Preference will be given to inter-departmental teams.
- Evaluation criteria:
 - Presents an innovative approach to a clear and well-defined research problem.
 - Addresses a critical research need with potential to be competitive for large-scale extramural funding (funding required to robustly support multi-investigator projects).
 - Proposes research that is *transformative with the need for interdisciplinary collaboration* in order to pursue large-scale extramural funding rather than incremental (i.e., building only on one or two team members' research).
 - Demonstrates an already-formed robust interdisciplinary collaboration through past activities.
 - Identifies team members with the expertise required to address the proposed research problem.

- Proposes activities that will realistically support the submission of a proposal for large-scale extramural grants.
 - Provides details for specific funding programs (including the agency, request for proposals deadlines, etc.).
- Demonstrates the potential to have an impact on the stature and visibility of the College of Agricultural Sciences overall and faculty research in particular (i.e., building on existing strengths in the College of Agricultural Sciences or advancing new initiatives).
- Includes adequate benchmarks for gauging progress in achieving the research goals.
- Presents a convincing strategy for leveraging the initial support of this grant to stimulate a lasting impact through continued collaborations and longer-term funding (beyond the Level II funding period).

Level III

- Proposals will be evaluated by a review panel who will make funding recommendations to the Associate Dean for Research and Graduate Education.
- Proposals from research teams established through SNIP grants are encouraged, but previous or current SNIP funding is not required.
- Evaluation criteria:
 - Presents a clear and advanced agricultural research question within a well-defined research area that spans the collaborative team's areas of expertise.
 - Proposes research that is *transformative with the need for interdisciplinary collaboration* in order to pursue large-scale extramural funding rather than incremental (i.e., building only on one or two team members' research).
 - Proposes a plan for recruiting students (including numbers, composition of team, departmental support, methods or approaches) that is realistic and well-thought out.
 - Proposes activities that integrate graduate education and training with the long-term goals of the research initiative.
 - Outlines a training and advising plan that will engage the recruited students with innovative activities beyond individual laboratory affiliations and demonstrate potential for high-impact synergies among disciplines.
 - Includes adequate benchmarks that mark the progress of the entire project.
 - Provides specific benchmarks or planned approaches for monitoring progress of individual student projects.
 - Addresses funding for summer salary and programmatic needs and, if necessary, identifies sources.
 - Presents a convincing strategy for leveraging the initial support of this grant to stimulate a lasting impact through continued collaborations and longer-term funding (beyond the Level III funding period).

Reporting

Level I

- Interim report will be due in **May 31, 2021**.
- A final report on SNIP-funded Level I projects will be due **November 30, 2021**.
- Submit report as a PDF to the Office of Research and Graduate Education (agresearch@psu.edu). Report templates will be provided.

Level II

- Interim reports on SNIP-funded Level II projects will be due at six-month intervals depending upon the duration of the proposed project (i.e. **May 31, 2021; November 30, 2021; May 31, 2022**)
- A final report on a SNIP-funded Level II project will be due on **November 30, 2021** or **November 30, 2022** (depending on the term funded).
- Submit all reports as a PDF to the Office of Research and Graduate Education (agresearch@psu.edu). Report templates will be provided.

Level III

- Student recruiting report is due **June 30, 2021**; mid-term report is due **June 30, 2022**.
- A final report is due **June 30, 2023**.
- Submit all reports as a PDF to the Office of Research and Graduate Education (agresearch@psu.edu). Report templates will be provided.