

## The Advanced Study Program invites proposals for the 2018 Summer Colloquium

We are inviting proposals from groups at NCAR and their university colleagues to lead the Advanced Study Program (ASP) Colloquium in summer of 2018.

ASP hosts a two-week Summer Colloquium designed for graduate students covering subjects within NCAR's realm of expertise in science, engineering and computing that represent new or rapidly developing areas of research for which good course material may not yet be available. Over the course of two weeks, experts in their field lead graduate students through the exploration of a cutting edge topic, with classroom presentations, tutorials, and student projects.

The proposal should identify a colloquium topic on a cutting edge research, engineering or scientific computing field with enough breadth to capture the interest of students with diverse scientific backgrounds. The aim should be to facilitate an in depth investigation or project by the student participants. ASP will assist with the design of the detailed agenda once a topic is selected; for the proposal, please include just a rough outline of the overall theme, lecture topics, hands-on activities that may include team projects and/or individual investigations.

*The Advanced Study Program Summer Colloquium is an excellent opportunity to develop new collaborators, recruit early-career scientists and engineers to NCAR, and it is a valued service to the university community.*

### **Proposal submission:**

Proposals should be 2-3 pages in length; submission deadline is September 30, 2017

They will be evaluated based on the following criteria. The proposal should:

1. Identify a colloquium topic that represents a suitable balance of: (a) established knowledge with numerous major questions ripe for investigation; (b) breadth to interest students with diverse academic backgrounds, and yet enough focus to allow adequate treatment in two weeks.
2. Contain a rough outline of the formats and include lecture topics, the scope of student projects, whether projects can be team-based or individual, and whether students will present their work at the end of the colloquium.
3. Include an assembly of an appropriate group of organizers. While NCAR staff needs to lead the colloquium organizing team, we request that it includes at least one member from the

university community. [Please note that ASP cannot pay for travel for federal employees, i.e. NSF, NOAA, EPA, DOE, NASA, should you plan to invite them as lecturers.]

4. Be timely, both in terms of the science topic and from the perspective of other recent or nearly concurrent workshops geared toward students. The colloquium is not meant to support ongoing workshop activities; it must be a stand-alone event.

5. Contain a recruiting plan on how you will reach student participants. We strive to have participants from a broad range of universities, including large R1s, smaller universities, and Minority Serving Institutions. ASP helps recruiting through our networks and at national conferences.

If you plan to include hands-on computer tutorials or interactive exercises, please provide details about what type of computing will be required, who will be providing the systems support, and if any GAUS will be required.

### **ASP provided components**

#### *Publishing*

ASP can assist with the publication of the lectures notes of the Summer Colloquium.

#### *Professional development*

The ASP will add to the science content of the colloquium by providing professional development sessions. These sessions could include, for example: (1) a career panel, (2) a CV and resume workshop, (3) tips on writing and publishing, (4) an overview of research and postdoc opportunities at NCAR, or (5) a keynote by a leading scientist about their research and career advice.

#### *Cohort building*

The ASP organizes activities for graduate students, scientists and lecturers to connect and network, such as receptions, working meals, keynote talks, and a guided trip to Rocky Mountain National Park.

#### *Evaluation*

The ASP will work with colloquium organizers to conduct a survey about the impact of the event. The survey can include specific learning outcomes you might be interested in.

#### *Logistics & funding:*

ASP covers support for about 25 student participants and up to 10 lecturers from the community at large, including travel, local transport, onsite meals and refreshments. ASP can accommodate up to ¼ international student participants. The number of supported participants and lecturers

will vary depending on actual travel expenses. ASP will provide administrative support, including travel arrangements and on-site meeting support. We anticipate hosting the colloquium in June, but other summer months may be considered subject to the availability of lodging and staff.

**Optional add-ons**

In past years, NCAR groups have provided funding for a third colloquium week. Please indicate in your proposal if that is the case. Please feel free to propose new ideas such as fieldwork or bringing in additional experts (beyond the scope of the regular colloquium) to collaborate with the students.

**Contacts:**

For questions or to discuss your ideas:

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