

# Polar Computing Hackathon Proposal Template

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When completed this should exceed no more than 2 pages (Sections 1-3 combined). Answers to the short survey fall outside of the 2 page limit.

## Section1: Proposal basics

**Proposal Title:**

**Proposer Name:**

**Proposer Institution:**

**Proposal Abstract:**

## Section2: Proposal details

**Polar Science Challenge:**

Describe the Science problem you will address

**How computing can help:**

Describe how or why you think high performance distributed computing (HPDC) resources could facilitate addressing this problem (e.g., processing your data faster, enabling analyses not possible with your existing compute resources, enabling the integration of many or very large files, etc.).

Note: You do not need to know the technical details of how this would be done - working that out may be part of the hackathon process - just present your argument for why you think it could be done if given the resources and expertise. However, if you do know the technical details but haven't been able to implement them, tell us and explain what the challenges have been.

**Tools:**

List any software tools (e.g., Matlab, R, python, ArcGIS) that you think you might need to accomplish your proposal.

**Data sets:**

List any data sets you know of that would be needed for this computer challenge. Be sure to indicate in what file formats these data exist and if there are any access or distribution restrictions involved in their use.

**Section3: Proposal practicalities**

If not yourself, please give contact information for the person who will represent your computer challenge at XSEDE16 at no cost should your project be selected (i.e. yourself, or another team member).

(Note: If your proposal is selected for the hackathon you will be invited to send 1 team member (or yourself) to the XSEDE 2016 meeting in Miami (17 - 23 July, <https://www.xsede.org/web/xsede16/>). Travel, accommodation, and conference expenses will be covered. This person must be able to attend the whole conference week including the Saturday, and be sufficiently familiar with the science problem, proposal, and data sets to work with the computing experts to accomplish the proposed work. This person should also be someone who will benefit from attending the XSEDE meeting and the Polar Science–Computing cross domain networking opportunities it affords. Finally, yourself and anyone else who might be sent must be willing to participate in a pre-event planning and strategizing process which will both prepare participants, and carry out project preparation ground work (such as data preparation, or XSEDE resource familiarity) so as to maximize productivity at the hackathon.

**Name:****Position at your institution:****Field of study:****Email:****Phone:****Website (optional):**

## Survey

Depending on community response we anticipate re-running this event in 2017 and so would appreciate if you would also attach the following survey to facilitate our future planning.

1. We requested these proposals for private submission this year but are considering alternatively utilizing a public forum (such as Github or a Google group) for community review and selection in the future.
  - a. Would the openness of such a forum stop you from proposing your ideas for any reason?
  
  
  
  
  
  
  
  
  
  
  - b. Would the use of github specifically be a barrier to entry as an unknown?
  
2. How did you hear about this event?
  
  
  
  
  
  
  
  
  
  
3. Is there a potential alternative advertising avenue that you think would have been more effective?
  
  
  
  
  
  
  
  
  
  
4. Did you know about XSEDE compute resource prior to seeing this event?
  
  
  
  
  
  
  
  
  
  
5. If yes to (4), how familiar are you with their infrastructure:
  - I have requested but been refused an allocation (if so which machine(s))
  
  
  
  
  
  
  
  - I have requested and been given an allocation which I used (if so which machine(s))
  
  
  
  
  
  
  
  - I have used resources on an allocation acquired by someone else(if so which machine(s))
  
  
  
  
  
  
  
  - I have heard of but never sought to use their resources (if so why not?)