

*Science and Technology Centers:
Integrative Partnerships*

Science and Technology Centers (STC) : Integrative Partnerships

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Office of Integrative

Science and Technology Centers: Integrative Partnerships

The STC program supports exceptionally innovative, complex research and education projects that require large-scale, long-term awards. STCs focus on creating new scientific paradigms, establishing entirely new scientific disciplines and developing transformative technologies which have the potential for broad scientific or societal impact.



STC History

- Eight “classes” of STCs to date: 1989, 1991, 2000, 2002, 2005/2006, 2010, 2013, 2016
- “Integrative Partnerships” emphasis in the program title beginning with the Class of 2000
- Twelve active awards
- Class of 2010 “graduating”
→ **Class of 2021**



STC Particulars

- Award mechanism: Cooperative agreements
- Budget: up to \$5 million / year¹
- Initial five-year award duration, renewal proposal and review in the fourth year
- Unsuccessful renewals phased out (year 5) with reduced support
- Successful 5-year renewals begin in year 6 with phased-out support in years 9 and 10

¹Subject to availability of funds



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STC program in numbers

- **Typical STC competition**

Approximately 250 preproposals, 7300 participants

Competition duration about 18 months, 300-500 different reviewers, 3-6 awards

- **Typical center statistics**

5 core partners, mostly academic

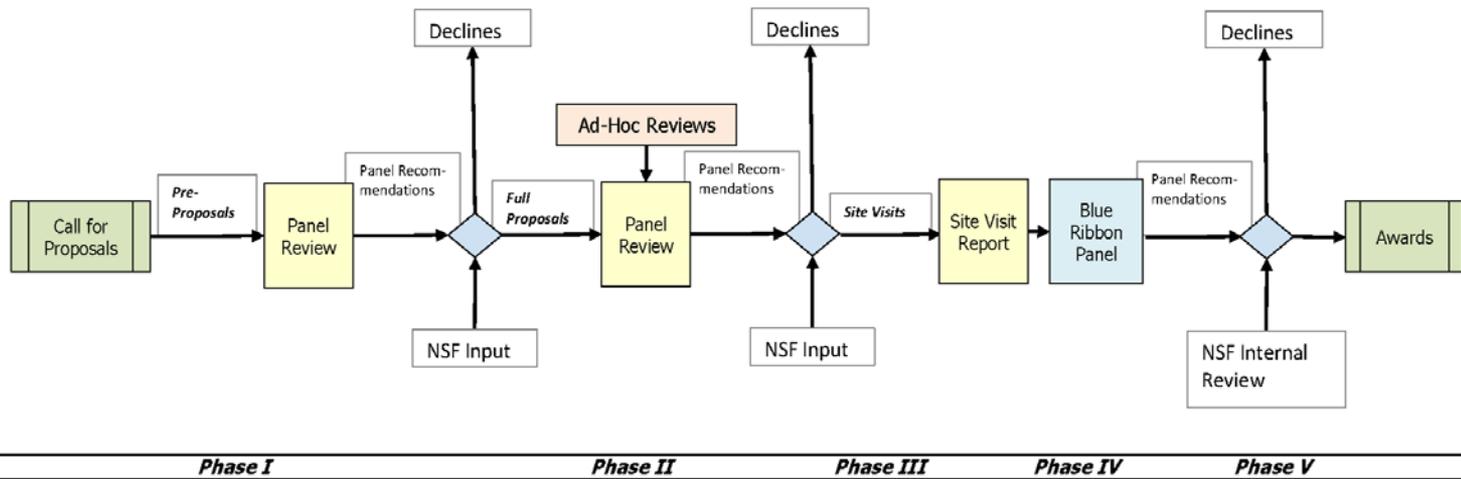
20+ senior researchers

20-100 graduate students



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STC Review Process Flowchart



STC Solicitation NSF 19-567

- Preproposal due date: June 25th 2019; full proposals by invitation only January 27, 2020
- Limited submission, 3 proposals as a lead institution; PI and co-PIs may be involved only with one proposal
- Changes relative to prior competitions
 - Streamlined format of preproposals
 - Review criteria matching the preproposal format



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Preproposal stage: Sections and Corresponding Program Specific Review Criteria

- Rationale for an STC
- Center plan holistic integration
- Partnerships and Participants-unique
- Integration Strategies-center culture



Developing an STC proposal

- Start with a core team
- Develop clear research vision
- Based on the team's unique strengths develop research plan
- Add additional expertise as needed
- Develop education, knowledge transfer and broadening participation goals
- Develop leadership and management strategy

