



**National Science Foundation**  
4201 Wilson Boulevard  
Arlington, Virginia 22230

**NSF 14-019**

## **Dear Colleague Letter: Stimulating Integrative Research in Computational Cognition**

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December 16, 2013

This Dear Colleague Letter is intended to enhance the scientific and societal impact of the field by encouraging active dialogue across the cognitive and computational communities, facilitating bidirectional cross-fertilization of ideas, and nurturing emerging areas of transdisciplinary research.

The National Science Foundation (NSF) is interested in receiving proposals to existing programs, listed below, that explore computational models of human cognition, perception and communication and that integrate considerations and finding across disciplines. Proposals submitted to programs in SBE should include a rigorous computational context, and proposals submitted to programs in CISE should include a rigorous cognitive context. For example, proposals that explore human cognition, perception, action, communication or learning should integrate and exploit what has been learned in the fields of artificial intelligence, natural language processing, computational neuroscience, computer vision, robotics, machine learning, or other related areas. Similarly, proposals that explore artificial systems, cyber-human or co-robotics designs should leverage and integrate our understanding of human cognition, perception, action control, linguistics, or developmental science.

This is not a special competition or new program. Proposals in response to this Dear Colleague Letter must meet the requirements and deadlines of the program to which they are submitted, but should start the proposal title with “CompCog:”. Primary and secondary units of consideration on the cover sheet should indicate which participating SBE and CISE programs are most relevant. These proposals may, at the discretion of the cognizant program director, be reviewed in a special cross-directorate Computational Cognition panel which will occur sometime during the spring.

Participating programs in SBE include:

Cognitive Neuroscience

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5316](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5316)

Decision, Risk and Management Sciences

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5423](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5423)

Developmental and Learning Sciences

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=8671](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=8671)

Linguistics

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5408](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5408)

Perception, Action, and Cognition

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5686](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5686)

Participating programs in CISE include:

Cyber-Human Systems

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504958](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504958)

National Robotics Initiative (NRI)

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503641](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503641)

Robust Intelligence

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503305](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503305)

Questions concerning this Dear Colleague Letter should be directed to the e-mail alias [CompCog@nsf.gov](mailto:CompCog@nsf.gov).

Sincerely,

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