

## **T&C CHEN CENTER FOR SYSTEMS NEUROSCIENCE**

*Five \$25,000 awards will be awarded between these two RFPs.*

### **RFP 1. Interfaces between systems**

Systems neuroscience is commonly broken down into the study of different specialized systems (e.g. vision, olfaction, memory, sleep). In contrast, our understanding of the interfaces between these systems remains much less understood. We seek to fund proposals that will explore in detail the nature of the interface between two (or more) neural systems that have primarily been studied so far as distinct entities. Preference will be given to interfaces previously unstudied. To foster new collaborations, projects should involve two or more labs at Caltech with no previous history of collaboration in the last three years among any of the labs.

### **RFP 2. Developing a new mathematical framework for understanding the brain**

'It is unimaginable that a viable representation of the brain/mind interface is possible without being incorporated into a broader mathematical framework. Yet it would be equally naive to expect such a representation with no new significant input from experimental psychology and neurophysiology'—Mikhail Gromov. We seek proposals that aim to develop a broader mathematical framework for understanding the brain, motivated by experimental data. To foster new collaborations, projects should involve at least two labs from Caltech, one in BBE/HSS and one outside, with no history of collaboration in the last three years among any of the labs.

**Proposal deadline: October 1, 2017.** Please refer to the Proposal Guidelines for detailed proposal instructions.

**Proposal Terms:** Grants are for 1-year (with six-month extensions permitted upon request, with justification). Budget can include personnel (graduate RA, postdoc, SURF or other undergraduate), equipment, equipment usage (e.g. fMRI hourly fees), and reasonable travel for dissemination of research findings. No faculty salary will be awarded. A progress report is required after one year.

**Proposal Submission:** Send proposal, budget and list of support, as a combined pdf file, to [Chen.Inst@caltech.edu](mailto:Chen.Inst@caltech.edu). In the body of your email, please identify the RFP to which you are applying. Overview of available RFPs can be found here: [www.neuroscience.caltech.edu/grants](http://www.neuroscience.caltech.edu/grants). There is an IP obligation associated with these grants. For more details about this obligation, please contact Case Cortese [casecortese@caltech.edu](mailto:casecortese@caltech.edu) in the Office of Technology Transfer and Corporate Partnerships.