



CITRIS Seed Funding Opportunity for FY 2011

Deadline: Sunday, May 1 2011, Midnight

The 2011 Seed Funding Opportunity invites CITRIS Investigators at CITRIS's partner campuses (Berkeley, Davis, Merced and Santa Cruz) to apply for a One Year Seed Grant (in the range of \$30,000 to \$75,000). CITRIS's Seed Grants are intended to initiate new research programs where Information Technologies (IT) are developed and used to creatively address important societal problems.

Successful applications will be those seeking support for high-risk and high-impact projects that are distinctive and novel in their approach to society's problems, are multi-disciplinary and are strategic collaborations between researchers based at more than one of the CITRIS campuses. Our goal is to provide support to enable the further development of initial ideas, to demonstrate the feasibility of innovative technologies and to attract larger-scale support from Federal/State funding agencies or the industrial/private sector.

In the Review of CITRIS undertaken by the University of California Office of the President in 2010, it was recommended that CITRIS focus its investments in areas where there were clear societal needs, where CITRIS had already built a community of researchers, and had a solid record of achievement. Consequently we are inviting proposals in the following areas:

1. **Delivering "Quality Healthcare Everywhere" for Californians** (~33% of total funding). This initiative is designed to improve access to, and reduce disparities in, healthcare by creating a statewide, trusted "medical-grade" network for patients, providers, public health officers and educators. Specific research topics solicited under this initiative include, but are not limited to the following:
 - a. California Telehealth Network: Network Architecture, Security and Performance
 - b. New Clinical Services: Surgical Robotics, Digital Retinal Imaging, Tele-Rehabilitation and Tele-Stroke Networks
 - c. New Platforms: Tele-Immersion, 3D Visualization, Virtual Reality, Interventional Radiology, and Enhanced Visualization for Telemedicine Devices
 - d. Integrated Wireless and Wireline: Sensors, Sensor Networks and Algorithms, Game-Based Learning, Voice Analysis
2. **Adaptable Cities** (~33% of total funding). Identification of socially significant aspects of the urban infrastructure likely to be stressed by global climate change (e.g. water supply, air quality and sustainability). The development of novel devices, sensors, controls, "opinion spaces", software/hardware systems, and interfaces, and their integration to enable cities and other urban communities to address these problems and thus adapt to climate change and create sustainable communities.
3. **Energy Modeling and Intelligent Systems** (~20% of total funding). Creative use of social media, information technology, or sensor and monitoring innovation, that advances the use of renewable energy, increased efficiencies, reduced consumption and green-house gas emissions, etc. Proposals that leverage the use of UCB, UCD, UCM and UCSC energy efficiency and /or micro grid test beds are particularly encouraged.

In addition and in order to make sure that CITRIS is able to support innovative projects outwith these main strategic areas, we are also announcing:

4. **General Research Seed Grants** (~14% of total funding). Next-generation information technology in which new devices, sensors, controls, software/hardware systems, and interfaces combine to address significant societal challenges across all areas of science, engineering, public policy, economics, business, social science, and the humanities in general. All projects will be evaluated on their general scientific and technical merits, independent of topic area.

Evaluation Criteria: Seed Grant proposals will be evaluated by a committee according to the following criteria:

- (i) The scientific and technical merits of the proposal
- (ii) The likelihood that the project will have a tangible and positive impact on society
- (iii) The likelihood of larger scale funding from government agencies or industries
- (iv) Evidence of collaboration between researchers based at the four CITRIS campuses
- (v) Evidence of multi-disciplinarity
- (vi) The likelihood that CITRIS researchers have or can establish a leadership position in the field of research

Exclusions: CITRIS Seed Funding cannot be used for faculty salary or Non Resident Tuition. Only one proposal per Principal Investigator will be considered.

Award Amount: **\$30,000 to \$75,000** for a duration of 1 year
(Extensions will be granted only under exceptional circumstances and will only be considered on receipt of a letter detailing the reasons).

Proposal Format:

- Project Information, 1-page PDF
 - Title
 - Area of Research (1-4 above) – **Please specify only one.**
 - Principal Investigator, Email, Home Department and Campus
 - Co-PI(s), Email, Home Department and Campus
- Research description, 2-3 page PDF, should include:
 - (i) The goal of the work
 - (ii) A brief summary of the work that will be undertaken
 - (iii) An indication of the likelihood that the project will have a tangible and positive impact on society
 - (iv) The plan for winning larger scale funding from government agencies or industry
 - (v) Evidence of collaboration between researchers based at the four CITRIS campuses
 - (vi) Evidence of multi-disciplinarity
 - (vii) The likelihood that CITRIS researchers have or can establish a leadership position in the field of research
- Budget table, 2-page Excel-http://citris-uc.org/files/Seed_Funding_Budget_Form.xls

Submit all forms to: Citris-Admin@citris-uc.org