2018 Seed Fund Awards RFP

Open to all applicants with Principal Investigator status on their campus

RFP Deadline: January 26, 2018 | Awardees notified March 2018
Program Overview

- Encourages collaboration among CITRIS campuses
- Helps fulfill our mandate to be multi-campus
- Strengthens CITRIS Initiative focus areas
- 144 projects funded since 2007
- $9M awarded in seed funding over the life of the program
- $57M additional funding, with more pending
Seed Grant proposals are evaluated according to the following criteria:

1. Technical innovation
2. Practicality
3. Creates solution to a societal challenge
4. Potential for follow-on funding
5. Alignment with CITRIS research initiatives
6. Use of CITRIS research assets including the Marvell NanoLab, CITRIS Invention Lab, or CITRIS Social Apps Lab is encouraged but not required
7. Inclusion of pre-tenured faculty is encouraged but not required
Submission Requirements

Online application portal at citris-uc.fluidreview.com

Requirements:

- Verification of PI status (yes/no)
- PI name, campus, home department
- URL for PI’s homepage or CV
- Co-PI information (if applicable)
- List of prior CITRIS Seed Grant awards: PI names, year, project title
- Project Title
- Abstract (250 words, text field)
- Proposal Description addressing the evaluation criteria (maximum 3 pages, 12-point font)
- Technology Readiness Level (indicate level 5-9)
2018 Core CITRIS Seed Funding

| Areas of Interest:         | Connected Communities  |
|                          | Health                 |
|                          | People and Robots      |
|                          | Sustainable Infrastructures |
| Total Funds Available:    | $550,000               |
| Project Amount            | Up to $60,000          |
| Requirements              | At least 2 PIs.        |
|                           | Each from a different CITRIS campus. |

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Benefits of CITRIS PI Affiliation

- Use of CITRIS shared facilities
- CITRIS seed grant opportunities
- Access to CITRIS shared laboratories
- Exposure of your research portfolio to CITRIS Member Organizations for potential funding
- Assistance with uploading and tracking your publications in eScholarship
- Access to funding through participation in CITRIS initiatives
- Proposal development support for large research grants
- Eligible for cost share commitment
## CITRIS Testbeds and Living Labs

<table>
<thead>
<tr>
<th><strong>Marvell Nanolab</strong></th>
<th>Device-level, MEMS, sensors, etc.</th>
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<tbody>
<tr>
<td><strong>CITRIS Invention Lab</strong></td>
<td>Rapid prototyping and packaging</td>
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<td><strong>CITRIS Foundry</strong></td>
<td>Business start-up incubator</td>
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<td><strong>Sutardja Dai Hall &amp; 406 Cory Hall</strong></td>
<td>Energy systems testbeds</td>
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<tr>
<td><strong>Global Virtual Testbed (GVB)</strong></td>
<td>Berkeley, Singapore &amp; Denmark – Energy systems</td>
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<td><strong>UC hospital system data</strong></td>
<td>Healthcare</td>
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<td><strong>Social Apps Lab</strong></td>
<td>Software and mobile apps</td>
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<td><strong>SierraNet and American River Basin</strong></td>
<td>Wireless sensor networks for water</td>
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<tr>
<td><strong>MESA Lab</strong></td>
<td>FAA-approved facility for Unmanned Aerial Vehicles</td>
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<td><strong>CAFE Platform</strong></td>
<td>Participatory democracy apps</td>
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<td><strong>Connected Corridors</strong></td>
<td>Transportation testbed in LA and I-205</td>
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<tr>
<td><strong>Collaboration with other UC Centers</strong></td>
<td>e.g. CREST, BSAC, SWARM, BIDS</td>
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CITRIS Collaborates with Other UC Centers: e.g. CREST, BSAC, SWARM, BIDS.
### CITRIS Testbed Capabilities

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<th>MEMS</th>
<th>Rapid Prototyping</th>
<th>Energy Efficiency</th>
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<td>Mobile Apps</td>
<td>Wireless Sensor Networks</td>
<td>UAVs</td>
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<td>Transportation Systems</td>
<td>Robotics</td>
<td>Health Monitoring</td>
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<td>Semiconductors</td>
<td>Smart Grid</td>
<td>Environmental Stewardship</td>
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**MEMS**
- Mobile Apps
- Transportation Systems
- Semiconductors

**Rapid Prototyping**
- Wireless Sensor Networks
- Robotics
- Smart Grid

**Energy Efficiency**
- UAVs
- Health Monitoring
- Environmental Stewardship
Highlights from Prior Award Recipients

**HealthHub**
An in-home platform to integrate communications, health monitoring, and intervention for an aging population
UC Davis + UC Davis Health Initiative: Health

**Forest management approaches in the southern Sierra Nevada ecoregion**
UC Davis + UC Merced Initiative: Connected Communities
Highlights from Prior Award Recipients

Million Hands
Prosthetic hands for children through an open source platform, 3D printers and sensors
UC Berkeley + UC Davis
Initiative: People and Robots

A Multispectral and Thermal Imaging sUAS System for Monitoring Crop Water Use and Detecting Water Stress
UC Davis + UC Merced
Initiative: Sustainable Infrastructures
Seed Funding: Areas of Interest

CITRIS CONNECTED COMMUNITIES

CITRIS HEALTH

CITRIS PEOPLE AND ROBOTS

CITRIS SUSTAINABLE INFRASTRUCTURES
Seed Funding: Areas of Interest

- Civic engagement or citizen science platforms
- Maker movement and remote collaboration platforms
- Novel applications for public open data
- Innovative use of data visualization tools
- Crowdsourcing systems
- Labor, on-demand work or “sharing economy”
- Applications that broaden access and public participation in STEAM and tech-related fields
- Online education (MOOCs, etc.)
Seed Funding: Areas of Interest

- Data analytics
- Care management solutions
- New platforms and sensors
- Integrated wireless, mobile and app-based solutions
- Technology solutions for aging and chronic disease
Seed Funding: Areas of Interest

- Human-Centric Automation
- Bio-Inspired Robotics
- Deep Learning
- Cloud Robotics
- Internet of Things
Seed Funding: Areas of Interest

CITRIS SUSTAINABLE INFRASTRUCTURES

- Integrated sensors
- Data management
- Advanced controls to increase productivity and sustainability of energy systems
- Energy generation, storage, and distribution
- Intelligent water infrastructures (country, state, region or city)
- Traffic management, goods movement, integration of Electric Vehicles and the grid
- IT that supports UCOP’s goal to become carbon neutral by 2025
Benefits for you:

- Apply online
- Easier management of team applications with multiple PIs
- Personal account with award history and tracking
- View a customized list of awards you are eligible for
- Submit reporting forms
- 24/7 technical support

Apply to citris-uc.fluidreview.com
Seed Funding Timeline Summary

- Application Portal: citris-uc.fluidreview.com
- RFP Deadline: Sunday, January 26, 2018 at 5:00 p.m. PST
- Awardees notified March 2018
Thank you!

Questions?
Email seeds@citris-uc.org

Need help finding a partner at another CITRIS campus?
Email seeds@citris-uc.org