

CENTER FOR NANOSCALE SCIENCE AND TECHNOLOGY
University of Illinois at Urbana-Champaign

SITEMAN CENTER OF CANCER NANOTECHNOLOGY EXCELLENCE

REQUEST FOR PROPOSAL: SCCNE-UIUC-05-FALL 2009

Date of Issue: October 27, 2009

SUBMISSION DEADLINE: November 27, 2009

Date for announcement of awards (anticipated): December 11, 2009

AWARD DURATION: 12 months (based on positive evaluation of the end of year report, if requested, exceptional projects can be extended for additional period, subject to funding)

AWARD AMOUNT: \$70,000 per award (direct costs)

YEARLY AWARDS: 1-2 (may include one or more competitive renewals)

Proposal Requirements

1. Each submitted **proposal must have at least one faculty member from each of engineering and one of biological, chemical, or medical sciences**; these may include researchers either from the campus of University of Illinois or Washington University at Saint Louis. The lead PI is required to be based at the University of Illinois.
2. Proposal submitters are specifically recommended to also include Washington University researchers as co-PI(s), to ensure tangible collaboration for conducting translational research. Although, not yet committed, it is anticipated that the Washington University will also make some funds available for their PIs to collaborate with UIUC-SCCNE/CNST.
3. The lead PI and/or the research team is required to attend major events/ meetings arranged by the NCI and the SCCNE/CNST, and provide bi-yearly updates, monthly reports, and any other information sought by the project executive committee/coordinator in a timely and comprehensive manner.
4. Proposals should not be more than two pages in length, with 1.5 line spacing, and Arial font size 11.
5. The proposal should provide the following details:
 - i. Project Title (indicate new/renewal)
 - ii. PI and co-PIs and Affiliations
 - iii. Relevance to the SCCNE mission (see premise below)
 - iv. Intellectual Merit
 - v. Approach
 - vi. Translational Aspects of the Proposed Project
 - vii. Contact Information for lead PI

viii. Research References (if needed, up to 3)

The budget is assumed to be approximately \$70,000 (direct costs) per project. No budget information is needed in the proposal. However, allowable expenses will include student or postdoc support, supplies, facility user fees, other routine research expenses, and travel to meetings or, in the case of UIUC-WashU collaboration, to/from Champaign and St. Louis. Equipment is not appropriate. **Allocated funds to be utilized by August 31, 2010.**

SUBMISSION PROCEDURE

Only Electronic Submissions in Word document format will be accepted by 5:00PM (Central) on November 27, 2009. Proposals submitted after the deadline will not be considered. Email proposals to: nano@cnst.uiuc.edu

File Naming Convention (follow carefully):

example: *Last Name First Initial-Short Title-SCCNE-UIUC-05-Fall 2009.doc
Doe J-Nanoparticles for Cancer Therapy-SCCNE-UIUC-05-Fall 2009.doc
*Lead PI.

NOTE: Submission of proposal implies that the lead PI agrees to:

- Providing timely response to requests from the CNST/SCCNE-UIUC, including NCI requirements of submission of monthly reports, meeting attendance, and utilization of funds within the funding periods
- ICR being credited to the CNST
- Submit at least one proposal through the CNST during the period
- For competitive renewal also attach 2-page annual report, and make case for renewal.

PROJECT BRIEF

The Siteman Center for Cancer Nanotechnology Excellence (SCCNE) based at the Washington University-Saint Louis is a partnership between Washington University and the University of Illinois at Urbana-Champaign. Other partners include Barnes-Jewish Hospital, and several private-sector companies including Kereos, Inc., and large multinational corporations including Philips Medical Systems.

The SCCNE is among the seven recently awarded CCNEs by the National Cancer Institute of the National Institutes of Health. The University of Illinois is leading Core 6 of the project- Nanomaterials and Nanofabrication for Targeting Cancer. This core addresses fundamental issues pertaining to nanomaterials and nanofabrication toward the development of nanodevices and nanotubes for targeting cancer. As of this year the CNST/SCCNE-UIUC has provided more than \$420,000 to eleven seed projects at UIUC, for project details see: www.cnst.illinois.edu/sccne-uiuc.htm

Proposals are invited, which contribute toward advancement of the goal of this core component, which is the research and development of nanomaterials and novel nanofabrication techniques **to translate ideas to clinically adaptable** processes, devices, sensors, and materials.

It is our expectation that the PIs will leverage the SCCNE-UIUC seeded projects to seek extramural support from the NIH and others for full-blown projects.

ABOUT CNST

The University of Illinois at Urbana-Champaign **Center for Nanoscale Science and Technology (CNST)** is the premier center for nanotechnology research, education, and outreach activities. **CNST** draws its strength from working as a collaboratory involving the Beckman Institute for Advanced Science and Technology, Roy J. Carver Biotechnology Center, Center for Cellular Mechanics, Coordinated Science Laboratory, Frederick Seitz Materials Research Laboratory, Institute for Genomic Biology, Micro and Nanotechnology Laboratory, Center for Nanoscale Chemical, Electrical, Mechanical, Manufacturing Systems, National Center for Design of Biomimetic Nanoconductors, National Center for Supercomputing Applications, and the School of Chemical Sciences. The Center is working towards seamless integration of interdisciplinary research from atoms and materials to devices and systems. **CNST** is uniquely located to harness the entrepreneurial and technical spirit in the Midwest, with ongoing industrial linkages as it prepares tomorrow's workforce. The **CNST** thrives on its cutting-edge research in bionanotechnology, computational nanotechnology, nanocharacterization, nanoelectromechanical systems, nanoelectronics, nanofabrication, nanomaterials, nanomanufacturing, nanomedicine, and nanophotonics. For more information visit: **www.cnst.illinois.edu** or email: **nano@cnst.uiuc.edu**, or call **217-333-3097**.

For more information contact:

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