

Call for Proposals June 20, 2007

McDonnell Academy Global Energy and Environment Partnership (MAGEEP)

www.mageep.wustl.edu

As part of the “Call for Action” issued at the concluding session of the International Symposium on Energy and Environment from May 4-7, 2007, (<http://eer.wustl.edu/McDonnellMayWorkshop/MainWorkshopPage.asp>), Chancellor Mark Wrighton announced that Washington University would provide \$500,000 to support “seed projects” for our faculty who wish to pursue with partners in the McDonnell Academy. These funds are to promote international collaborative activities with faculty and students at partner institutions of the Academy (<http://mcdonnell.wustl.edu>).

We are now calling for proposals from tenured and tenure-track faculty at Washington University in St. Louis. Imaginative and innovative proposals are sought under the following general guidelines.

MAGEEP Proposal Guidelines

All Proposals Must:

1. Include concrete information about the involvement of faculty or students from at least one McDonnell Academy partner institution in addition to Washington University. For contact persons at each partner institution, consult <http://www.mageep.wustl.edu/Board.aspx>
2. Show how the project would be sustained and go beyond activities carried out after seed funding from MAGEEP is used
3. Identify products to be presented at the December 2008 Energy and Environment Summit in Hong Kong. These may be in the form of preliminary reports of findings, joint peer reviewed papers, conference presentations, joint proposals for extended funding, and so forth.
4. Identify at least one Washington University faculty member and/or student who will attend the Hong Kong meeting in December 2008 and present an extended abstract as a progress report. In addition, faculty PIs and their students will be expected to attend the MAGEEP biweekly colloquium at Washington University throughout the year as well as summer 2008 colloquium now being planned.

Additional Preference Will Be Given to Proposals that:

1. Are fundamentally interdisciplinary, involving representatives of more than one discipline or department/school at Washington University (e.g., engineers working with economists and policy analysts in a joint project to address a problem in energy or environment)
2. Involve representatives of two or more institutional partners of the McDonnell Academy. Multiple partner collaborations are consistent with the Academy’s goal of promoting more effective global efforts in the study of energy and environmental issues.
3. Show evidence of shared funding from one or more partner institutions
4. Include students as well as faculty in the funded activities

Proposals may be in the range of \$10,000 to \$50,000 (maximum).

Proposals may address basic categories of funded activity that grew out of the discussions at the McDonnell Academy International Symposium on Energy and Environment held in May 2007 but are not limited to these categories. Combinations of these categories are encouraged. The categories identified during the Symposium include:

I. Educational activities

1. Co-development of content/modules for courses on energy and environment (e.g., support for colleagues from partner institutions, travel to and from institutions)
 - a. Aerosols and air quality
 - b. Energy (science/technology/policy)
 - c. General environmental education
 - d. Environmental policy
 - e. University campuses as living energy and environment laboratories
 - f. Other innovative ideas

The proposal description should include a description as to how the course modules or educational development will be demonstrated at the Hong Kong meeting in conjunction with the partner university collaborators.

2. Joint multi-university programs on technology for international social and economic development (e.g., field projects for students supervised by two or more faculty from partner institutions)
3. Other innovative ideas in collaborative education in energy and environmental areas

II. Research activities

1. Social, economic, and political dimensions of energy and environment
2. Adverse environmental impacts on human health
3. Environmental impact on social and economic settings, including livelihood of the poor
4. Water supply and treatment for small communities
5. Technologies for sustainable development in rural communities
6. Carbon dioxide related studies: novel combustion system, sequestration (chemical and biological)
7. Biofuels
8. Combustion (biofuels and coal) aerosols: characterization and control
9. Air/water quality and environmental health (also the spread of infectious diseases)
10. Photoactivated processes and photovoltaics for energy and environmental technologies
11. Political and economic viability of energy usage and the environment
12. Public support for conservation and renewables
13. Sustaining natural communities and conservation
14. Sustaining ecological processes
15. Dynamic, systematic evaluation of energy usage and environmental policy
16. Architectural design for green buildings
17. University best practices for reducing environmental footprints
18. Other investigator initiated ideas

We encourage the inclusion of doctoral students in the projects. A project could budget for Washington University doctoral student travel to partner universities (to spend up to 6 months at a partner institution; in addition, travel to the December 2008 meeting in Hong Kong is expected). Hosting partner university doctoral students at WUSTL laboratories is also encouraged and may be included in the budget. Short visits by partner university faculty to WUSTL to interact with faculty and student groups are also encouraged (funding can be included in proposal budget).

LOGISTICS OF SUBMISSION

- 1) The proposal project description should not exceed 5 pages (standard 8.5 x 11; approximately 2500 words). This should address the items outlined above.
- 2) Curriculum Vitae of all participating faculty (WUSTL and partner university CVs should be appended). The CVs should not exceed 2 pages each. If names of participating doctoral students are known, they should be identified.
- 3) Budgets should include an itemized list of monies to be spent along with a justification. The following elements should be included: Travel expenses to the December 2008 meeting in Hong Kong (anticipated to be \$3000 or so) for at least one faculty investigator from WUSTL unless other funds are available to support the trip. Doctoral student participation in the Hong Kong meeting will also be looked upon favorably.
- 4) No funds can be used for faculty salary. No overhead or tuition for students can be charged.

PROPOSAL DEADLINE:

September 15, 2007

(sent electronically to Prof. James V. Wertsch: jwertsch@wustl.edu with copy to kwilliam@artsci.wustl.edu)

NOTIFICATION OF SELECTED PROPOSALS:

October 1, 2007

MAGEEP Coordinating and Proposal Review Committee:

James V. Wertsch, Chair of Coordinating Committee, Director of McDonnell Academy
Pratim Biswas, School of Engineering and Applied Sciences
Victoria Fraser, School of Medicine
Bruce Lindsey, School of Architecture
Himadri Pakrasi, Arts and Sciences, School of Engineering and Applied Sciences
Ping Wang, School of Arts and Sciences
Gautam Yadama, School of Social Work

For more information, contact James V. Wertsch (jwertsch@wustl.edu)