FY 07-08 IT Budget Proposal
CIO: Faculty Advancement Support Technology (FAST)
ABBA Category One: Institutional Effectiveness
ABBA Category Two: Information Technology

For more information about this proposal, contact: Patti Owen, 2-5626, plowen@berkeley.edu

Many campus groups (including the Faculty Senate and the Academic Personnel Office), not to mention individual faculty members, have designated as a high priority the improvement of the Bio-Bib process, a workflow by which ladder-rank faculty document their work for the purpose of academic review. Two phases of architectural study aimed at developing next generation Faculty Advancement Support Technology (FAST) come to an end in June 2007. This proposal outlines a 18-month project (July 2007- December 2008) that will result in the implementation of a Bio-Bibs report system and its roll-out to early adopter departments. This project also lays the foundation for the campus to gather useful data to reuse. This project stops short of a complete campus deployment, which we plan to address through a budget proposal in 2008.

1. Alignment with IT Strategic Plan

This proposal is aligned along Critical issue 3 of the IT Strategic Plan, "Research" to "support research in all disciplines, and serve to interconnect the campus with the greater Bay Area research community." The FAST project will streamline the process of creating and reviewing the Bio-Bibs forms, a burdensome task borne by every ladder rank faculty member on the campus in every discipline. By aggregating the data gathered in the Bio-Bibs process in a centralized electronic system, this project enhances the campus' capacity to publicize Berkeley's research output to the wider research community.

2. Impact

This project has substantial potential to improve faculty satisfaction with IT services on campus through demonstrating campus IT's responsiveness to faculty priorities and needs. Moreover, with increased capacity to track and publicize the scholarly and creative output of the campus afforded by the project, UC Berkeley will forge more effective connections with the outside community, including historic and prospective funders.

3. Risk assessment

Without a concerted, campus-wide effort to develop electronic systems for the gathering and reviewing of faculty advancement data, the campus runs the risk of massive duplication and diffusion of effort. Various departments have or are about to develop and deploy their own FAST-like system.

4. Innovation

This project will demonstrate innovation in the following ways:
• the application of rigorous user-centered design methodology (executed as part of a Master's Project at the I School) in the design of the interface
• the interaction between highly usable Web 2.0 interface with a PeopleSoft backend
• the aggregation of cross-disciplinary bibliographic data into a data warehouse for reuse by campus.

5. Funding model

The funding model for Faculty Advancement Support Technology (FAST) activities is predicated on collaboration between the Academic Personnel Office (APO), Enterprise Systems Solution, the Academic Senate, IST-Data Services, and IST-Application Services. This project will also build on the successful collaboration between students from the School of Information and professional staff in IST.

The phasing for the project is the following:

In Phase A (July 2007-Dec 2007), we will convert prototypes developed from July 2006 to May 2007 into production level services. Specifically, we will develop for faculty members:
• a report of classes taught based on data drawn from CSIR
• a report of students supervised based on data drawn form GradLink

We also lay the foundation for basic user and departmental support structures for FAST. In parallel with the conversion of prototypes into production systems, we will carry out another architectural and prototyping phase whose central goal is to compare pursuing a pure PeopleSoft implementation vs. one that combines an non-PeopleSoft web front-end with the PeopleSoft databases.

Phase B (January 2008-Aug 2008) is an implementation of the Bio-Bibs report system. That is, users will be able to generate and submit a Bio-Bibs form through this system.

Phase C (Sept 2008-Dec 2008) is a pilot phase in which we roll out the Bio-Bibs implementation to several early-adopter departments.

This project stops short of a complete campus deployment, which we will address through another budget proposal in 2008. Since the proposal will come during the middle of Phase B, we will be in a position to submit project plans that reflect the formative experiences of Phase A.

We request funding for the following:

In IST-DS to conduct the overall project management and architecture:
• P/A III working full-time for 18 months for analysis and project-management
• P/A IV, a senior data architect to supervise the technical architecture of the project, working at 0.5 day a week for 18 months
• 0.5 FTE for a P/A III to work 6 months on the ETL to gather data into the EDW
• 0.25 FTE for a P/A III to work 2 months on generating reports from the EDW
• 4 GSRs, drawn from the School of Information, working 20 hours/week for 18 months to support the data architecture, user interface design, and testing of the system.

In IST-AS for 7-months of PeopleSoft contractor-time to support the architecture of Phase A and the implementation work of Phase B.

In APO and ESS for an analyst working full-time for 18 months on the following tasks:

• Initial research of a data model
• Development of on-line training materials for users and administrators
• Ongoing support for the module
• Implementation of the data model
• Analytical support and testing for any recoding due to the PeopleSoft upgrade to 9.0
• User Interface development and testing
### Summary of Funding Model:
#### CIO: Faculty Advancement Support Technology

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<th>Summary of funding: campus vs other</th>
<th>ACTUAL</th>
<th>PROJECTED</th>
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<td>FY 05-06</td>
<td>FY 06-07</td>
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<td>Campus funding sources</td>
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<td>TOTAL ALL FUNDING SOURCES</td>
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**Note:** In accordance with the University’s accounting system, positive numbers are expenses or deficits, while negative numbers are funding or surpluses.