



U.S. DEPARTMENT OF
ENERGY

Office of
Science

Update on Office of Science Early Career Research Program and Data Systems

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Office of Science Early Career Research Program

- **Purpose: To support the development of individual research programs of outstanding scientists early in their careers and to stimulate research careers in the disciplines supported by the Office of Science.**
- **Principal investigators are within 10 years of receiving a Ph.D. and are either untenured academic assistant professors on the tenure track or full-time DOE national laboratory employees.**
- **About 65 awards expected in FY10 with \$85M in Recovery Act funds. Future annual competitions will be supported through regular research appropriations.**
- **University grants are at least \$150,000 per year for five years to cover summer salary and expenses; Lab awards are at least \$500,000 per year for five years to cover full annual salary and expenses.**
- **Announcements posted 7/2/09; ~2200 Letters of intent arrived by 8/3/09; ~1750 full proposals arrived 9/1/09; Announcements expected by 2/1/09. (BES is reviewing ~850 proposals)**
- **Research will be competitively awarded based on peer review. Review and award management will take place in the six science programs.**
- **Eligibility criteria, review criteria, and program rules are common across the Office of Science.**
- **Frequently Asked Questions posted on http://www.science.doe.gov/sc-2/early_career.htm**



Data System Planning Process

- **In May 2008, the SC Office of Business Management initiated a project to develop requirements for a grants management data system.**
- **A team was formed to provide input**
 - SC Information Technology group
 - Science programs, as represented by the Office of the Deputy Director for Science Programs (SC-2)
 - Small Business Innovative Research (SBIR) program
 - SC Office of Grants and Contracts
- **Program input developed by SC-2 with advice from ASCR, BER, BES, FES, HEP, and NP**
 - A team of six program managers, one from each SC program
 - Input from support staff members across SC



Portfolio Analysis and Management System (PAMS): The Basic System

- **Core database with flexibility to add data manipulation modules**
- **Exchanges data with existing systems**
- **Allows direct data input from outside and inside DOE**
 - Reviews, revised budgets, progress reports, people profiles, workforce forms, etc.
- **Proposal record**
 - Electronic proposal from a lab or university
 - Correspondence
 - Reviews and review information
 - Documentation of decision
 - Post-award management documents
 - Various metadata
- **People record**
 - Information about reviewers and principal investigators
 - Contact information; optional demographics; keywords; proposal/review history



PAMS Additional Features

- **Time and date stamping, tracking, built-in notifications and reminders**
- **Data aggregation, sorting, and calculations**
- **Easy access for program manager to portfolio**
- **Searchable on all data fields**
- **Spreadsheet-based reporting**
- **Defined roles and access controls**
- **Flexible routing**
- **Privacy issues addressed**
- **Facilitation of a public abstracts database**



The Data Challenge for PAMS

- **SC employs about 150 federal program managers**
- **At any given time, SC manages about 3,000 financial assistance awards and more than 1,000 lab awards**
- **SC annually receives about 2,500 new, renewal, and supplemental financial assistance applications**
 - Each proposal receives three to five reviews
- **SC collects more than 10,000 reviews annually**
- **SC annually supports about 25,000 people**
 - Ph.D.'s, grad students, undergrads, engineers, technicians





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Thank You

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