

Joint Directed Research and Development (JDRD) Program

Overview

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JDRD: What is it?

- Internal (UTK) research program to encourage collaborative research with ORNL
- Funds UTK research that complements a newly-funded ORNL LDRD project (or LDRD project with 2 years remaining)
- Aim: Support projects that offer promise for future new external funding involving UTK-ORNL collaboration
- Priority given to new UTK-ORNL research partnerships
- Projects are funded for 1 year, with possibility for renewal for a second year

JDRD: A bit of history

- Program began in 2006
- Home departments of PIs that have received funding:
 - College of Engineering:
 - Chemical and Biomolecular Engineering
 - Civil and Environmental Engineering
 - Electrical Engineering and Computer Science
 - Materials Science and Engineering
 - Mechanical, Aerospace, and Biomedical Engineering
 - Nuclear Engineering
 - College of Arts and Sciences:
 - Biochemical and Cellular and Molecular Biology
 - Chemistry
 - Earth and Planetary Sciences
 - Ecology and Evolutionary Biology
 - Microbiology
 - Physics and Astronomy

What is the program size?

- **Total funding: ~\$600,000 per year**
 - ~\$300,000 for new projects
 - ~\$300,000 for year 2 projects
- **Number of new projects funded each year: ~6-8**
- **Percentage of year 2 project continuations: ~90%**
- **Average award size: about \$50,000**

How competitive is the program?

Year	# new proposals submitted	# new proposals funded	Funding rate for new proposals
2008	18	8	44%
2009	21	8	38%
2010	9	6	67%

Who is eligible?

- All UTK faculty members with 100% appointment at UTK
- UTK research staff
- Higher priority in funding:
 - New UTK/ORNL collaborations
- Low priority in funding:
 - Faculty with ORNL joint appointments
 - Faculty/staff hired as part of Governor's Chair or Distinguished Scientist's group

How can funds be spent?

- **Can be included:**
 - Student support: Graduate and/or undergraduate
 - Postdoctoral support
 - Supplies and incidentals
 - Faculty release time (COE) or summer salary (all colleges), up to maximum of \$5K per year per grant, inclusive of benefits
- **Cannot be included:**
 - Travel funds
 - Accrued benefits earned by individuals prior to participation in JDRD project
 - Equipment
 - *No F&A is charged*
- **Restrictions on spending:**
 - Funds must be used as requested
 - Changes to budget are unlikely to be approved
 - Unused funds reclaimed at end of year (no carry over)

Evaluation criteria for JDRD proposals

- **Technical merit**
- **Opportunities for faculty members to establish new collaborations at ORNL**
- **Prospects for future new external funding**
- **Inclusion of graduate and undergraduate students in the research**
- **Proposals that are especially timely or strategic for UT Knoxville**

How are Year 2 funding requests evaluated?

- **Extent to which project has been successful in identifying and pursuing new funding opportunities during year 1, based on research funded by JDRD program**
- **Extent to which project has lead to a meaningful UTK/ORNL collaboration**
- **Year 2 proposals should include details on new funding opportunities being pursued (to extent possible):**
 - **Topic of proposal(s)**
 - **Names of collaborators**
 - **Names of funding agencies**
 - **Specific funding program**
 - **Name of program manager (if appropriate)**
 - **Proposal due dates (if appropriate)**

How are funding decisions made?

- **Review panel:**
 - 6-8 UTK faculty and/or administrators
 - Broad representation of experts in fields of research covered by proposals
 - Typically includes Associate Deans of Research, joint UTK/ORNL faculty, prior JDRD recipients, etc.
- **Each panel member scores projects individually**
- **Panel meets as a group to discuss projects and select projects for funding**

Current Call for FY11 JDRD Funding

- **Announced: September 30, 2010**
- **Deadline for 3 page proposal: 5PM Friday, Nov. 19, 2010 (via email to leparker@utk.edu)**
- **Selections made: Early December**
- **Funding available: Jan. 1, 2010**
 - Later starts are possible, if difficulty in hiring students, postdocs, etc.

ORNL LDRD Projects Eligible for JDRD Collaboration (2011)

- List available online at http://www.scialli.org/jdrd_rfp.shtml
- Consists of:
 - ~26 new LDRD projects
 - ~43 renewal LDRD projects with 2 years remaining
- Organizations involved:
 - Biosciences
 - Center for Nanophase Materials Sciences
 - Chemical Sciences
 - Computational Sciences and Engineering
 - Computer Science and Mathematics
 - Energy and Transportation Science
 - Environmental Sciences
 - Fusion Energy
 - Materials Science and Technology
 - Measurement Science and Systems
 - NScD Neutron Facilities Development
 - NScD Neutron Scattering Science
 - Nuclear Science and Technology
 - Physics

JDRD Proposal Contents

- **Maximum of 3 pages (excluding appendices):**
 - 100-150 word summary of project
 - Description of proposed research
 - Description of LDRD project with which the project is affiliated, and how proposed work relates
 - Description of your prior affiliations and collaborations with ORNL
 - Description of possible external funding opportunities that could be open to PI as result of JDRD funding

- **Appendices:**
 - Budget
 - Letter of support from LDRD PI
 - One-page bio of JDRD PI

How to participate?

- **Contact PI of ORNL LDRD project of interest**
- **Discuss complementary research idea for UTK JDRD program**
- **Develop research plan**
- **Obtain letter of support from PI of LDRD project**
- **Prepare JDRD research proposal**
- **Submit proposal materials to Prof. Lynne Parker (leparker@utk.edu) by 5PM Friday, November 19, 2010**

Need more information?

- Online information (Science Alliance website): <http://www.scialli.org/jdrd.shtml>
 - Includes call for proposals, list of eligible ORNL LDRD projects, information on previously funded JDRD projects
- Contact:
 - Prof. Lynne Parker, Assistant Director, UT/ORNL Science Alliance
 - Email: leparker@utk.edu
 - Office: Claxton 220
 - Phone: 974-4394
- Questions???