

Proposal Writing - "An Insight"

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Why Write Proposals?

- **Proposals are Written to Promote Science for Multiple Benefits**
 - **Benefits the researcher to promote his/her field of interest**
 - **Benefits an organization such as ORNL to become a leader in certain fields of research**
 - **Benefits the U.S. in world leadership in science and technology**

How to Find Out Who to Send Proposals to for Federal Funding

- **Sign up for proposal notices through the following website**

<http://www.fedgrants.gov/ApplicantRegistration.html>

Proposal Opportunities are Posted Daily

- **Takes 5 min Daily to Scan the Opportunities**
- **Get Details on Relevant Solicitations**
- **Check for**
 - Eligibility
 - **ORNL leads or partner leads**
 - If ORNL can only be a partner, what are the approval requirements?
 - Funding amount
 - **Is it worth spending the effort for?**
 - Any cost share required?
 - Due dates
- **Work with Your Mentor or Other Experienced Staff in Your Divisions to get Answers**
 - In the M&C Division, I provide this service.

Industry Proposals Submitted in FY2006

No.	Date Sub	Proposal To	Lead Org.	Authors	Title of Proposal	Total K\$	ORNL K\$	Duration	Status
INDUSTRY PROPOSALS									
1	10/19/2005	DOE-ITP	Duraloy	Sikka <i>Millie Atchley at ORNL submitted the proposal for Roman Pankiw at Duraloy</i>	Application of Newly Designed H-Series Steels to Increase Energy Efficiency of	1500	300	3	In Review
2	10/19/2005	DOE-ITP	EIO	Hemrick <i>Larry Boyd at EIO submitted the proposal</i>	Design of Displacement Reaction Refractory Materials using Thermodynamic Based Design	1500	780	3	In Review
3	10/19/2005	DOE-ITP	Eaton	Sikka/Qu/ Bo Lisowsky <i>Blau at Eaton submitted the proposal</i>	Nanocoatings for High-Efficiency Industrial Hydraulic and Tooling Systems	1,847	600	4	In Review
4	10/19/2005	DOE-ITP	UMR	Hemrick <i>Bill Headrick at UMR submitted the proposal</i>	Integrated Vessel Linings for Maximized Energy Efficiency and Degradation Resistance	2,769	600	4	In Review
5	10/19/2005	DOE-ITP	Portland	Feng <i>Victor Li at Portland submitted the proposal</i>	Energy Efficient Processing of Degradation Resistant Cast Materials Based on Advanced Physical Process Models	2,450	1,200	4	In Review
6	10/19/2005	DOE-ITP	Secat	Han/Sikka <i>Subodh Das at Secat submitted the proposal</i>	Ultrasonic Processing for Production of Degradation-Resistant Materials	2,000	1,220	4	In Review

Laboratory Proposals Submitted in FY 2006

No.	Date Sub	Proposal To	Lead Org.	Authors	Title of Proposal	Total K\$	ORNL K\$	Duration	Status
LABORATORY PROPOSALS									
1	10/26/2005	DOE-ITP	AMES	Tiegs/Sikka <i>Bruce Cook at AMES submitted the proposal</i>	Advanced Wear-Resistant Nano Composites for Increased Energy Efficiency	1680	400	4	In Review
2	10/26/2005	DOE-ITP	ORNL	Hemrick <i>Millie Atchley at ORNL submitted the proposal</i>	Novel Refractory Materials for High-Temperature, High-Alkaline Environments	3,040	2,056	4	In Review
3	10/26/2005	DOE-ITP	ORNL	Daniel <i>Millie Atchley at ORNL submitted the proposal</i>	High-Speed Processing of Periodically Nano-Micro-Structured Low Friction Surfaces for Energy Efficient Performance	2,000	1,520	4	In Review
4	10/26/2005	DOE-ITP	ORNL	Keiser <i>Millie Atchley at ORNL submitted the proposal</i>	Advanced Membrane Separation Technologies for Energy Recovery from Industrial Process Streams	3,010	1,460	4	In Review
5	10/26/2005	DOE-ITP	ORNL	Ludtka/Sikka <i>Millie Atchley at ORNL submitted the proposal</i>	Atomistic-Level Microstructural Control for Developing the Next Generation of Degradation Resistant Materials	2,400	2,000	4	In Review
6	10/26/2005	DOE-ITP	ORNL	Blue/Peter <i>Millie Atchley at ORNL submitted the proposal</i>	Processing of Bulk Nanocrystalline Materials to Achieve Unique Engineering Properties	3,600	2,418	4	In Review
7	10/24/2005	DOE-ITP	ORNL	Feng <i>Millie Atchley at ORNL submitted the proposal</i>	Direct Solid-State Conversion of Recyclable Metals and Alloys	2,450	1,730	4	In Review
8	10/26/2005	DOE-ITP	ORNL	Murali <i>G. Muralidharan at ORNL submitted the proposal</i>	Development of Databases and Models for Predicting Behavior of Materials Affected by Environment and Thermo-mechanical Processing	2,560	2,460	4	In Review
9	10/26/2005	DOE-ITP	ORNL	Narula/Sikka <i>Millie Atchley at ORNL submitted the proposal</i>	Novel Separation Systems for Low Energy Separation of Alkenes from Alkanes	2,000	1,600	4	In Review

Work for Others Projects

- **By Definition, All Work Other than for DOE is Work for Others (WFO).**
- **WFO Includes**
 - DOE
 - EPA
 - DOJ
 - DOC
- **Also Includes**
 - University
 - Industry

How to Go for WFO with Federal Agencies Other than DOE

- **Follow Federal Grant Route, which Covers All Federal Agencies**

How to Go for WFO with Industry

- **Industry Calls Someone they Know at ORNL**
 - Typically a senior staff member
 - He/she contacts you, knowing that you have the expertise.
 - You follow up with the company to further understand their need.
- **Prepare WFO Paperwork**
 - Takes 2 to 3 h to do (see example in handout).
 - Each division has a person who deals with taking your information and getting approvals.
 - It can take up to 2 months for money to come into ORNL.
 - Advanced payment is required, which takes time.

General Comments

- **Take Action**
 - Do not depend on your mentor or management to get the funding for you.
- **Be Proactive**
 - If you have an on-going program, please plan 1 to 2 years ahead to find ways to continue.
- **Network at ORNL**
 - Let others at ORNL know your research expertise and areas that you are working in or would like to work in.
- **Network with Outside Institutions**
 - Universities
 - Industry
- **Ask Questions**
 - Mentor
 - Management
 - Wigner Committee members