

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**

**Received During December, 2005**

**COLLEGE OF EDUCATION**

**Consistency Mgmt and Coop Disc**

Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G092537 / 5021 / H0063 / C0001  
Title: Bracknell Forest Borough Council, and the Governing Body of The Brakenhale School  
Agency: Bracknell Forest Borough Council  
Agency Code: 4PGX11  
Revenue Source Code: 800  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$63,771.00  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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**Health and Human Performance**

Investigator: Dr. Charles S. Layne, 100.00%  
Cost Center: G090754 / 5013 / H0065 / B0001  
Title: Development of the Office of Scientific Data Review and Dissemination  
Agency: WYLE Laboratories  
Agency Code: 3WYL00  
Revenue Source Code: 800  
Duration: 8/1/2004 to 9/30/2006  
Award Amount: \$119,056.00  
Type of Support: Contract for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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**COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES**

**Psychology**

Investigator: Dr. David J. Francis, 20.00%  
Cost Center: G086443 / 5014 / H0288 / B0001  
Title: Scaling up Assessment Driven Intervention Using the Internet and Handheld Computer  
Agency: University of Texas Health Science Center at Houston  
Agency Code: 1UTX11  
Revenue Source Code: 600  
Duration: 9/19/2002 to 9/18/2006  
Award Amount: \$82,835.60  
Type of Support: Grant for Research  
CFDA: 47.076 - Education and Human Resources  
CB Designation: Restricted Research

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**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During December, 2005**

Investigator: Dr. H. Julia Hannay, 100.00%  
Cost Center: G091906 / 5016 / H0125 / H0001  
Title: Graduate Student Placement in the Field of Neuropsychology - Jared Bengé  
Agency: University of Texas Health Science Center at Houston  
Agency Code: 1UTX11  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$18,073.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

**Biology/Biochemistry**

Investigator: Dr. Costa M. Colbert, 90.00%  
Cost Center: G091402 / 5013 / H0104 / B0001  
Title: CRCNS: Computational and Optical Studies of Neural Input/Output Relationship  
Agency: Baylor College of Medicine  
Agency Code: 7BAY00  
Revenue Source Code: 800  
Duration: 9/15/2005 to 7/31/2006  
Award Amount: \$178,155.00  
Type of Support: Contract for Research  
CFDA: 93.866 - Aging Research  
CB Designation: Restricted Research

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**Center for Applied Geoscience Excellence**

Investigator: Dr. Kurt Marfurt, 50.00%  
Cost Center: G090731 / 5022 / H0451 / B0001  
Title: Research in Imaging New Types of Seismic Data  
Agency: Various Private Profit Agencies  
Agency Code: 3VAR00  
Revenue Source Code: 800  
Duration: 10/1/2004 to 9/30/2006  
Award Amount: \$10,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**Chemistry**

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**

**Received During December, 2005**

Investigator: Dr. T. Randall Lee, 10.00%  
Cost Center: G085927 / 5015 / H0073 / B0001  
Title: Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles - MASTER ACCOUNT  
Agency: Texas A&M Engineering Experiment Station  
Agency Code: 1TAM10  
Revenue Source Code: 600  
Duration: 8/19/2002 to 8/18/2007  
Award Amount: \$17,131.50  
Type of Support: Co-Op Agreement for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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Investigator: Dr. B. Montgomery Pettitt, 10.00%  
Cost Center: G085927 / 5015 / H0073 / B0001  
Title: Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles - MASTER ACCOUNT  
Agency: Texas A&M Engineering Experiment Station  
Agency Code: 1TAM10  
Revenue Source Code: 600  
Duration: 8/19/2002 to 8/18/2007  
Award Amount: \$17,131.50  
Type of Support: Co-Op Agreement for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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**Computer Science**

Investigator: Dr. Ernst L. Leiss, 100.00%  
Cost Center: G090956 / 5013 / H0108 / B0001  
Title: US Venezuela Planning Visit: Security and Integrity of Web-Based Information, With Emphasis on  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 10/15/2005 to 9/30/2006  
Award Amount: \$7,231.00  
Type of Support: Grant for Research  
CFDA: 47.079 - International Science and Engineering (OISE)  
CB Designation: Restricted Research

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**Geosciences**

Investigator: Dr. Daewon Byun, 50.00%  
Cost Center: G090800 / 5021 / H0429 / B0001  
Title: H45-S Modeling Strategy in Support of TexAQS-II and 8-Hour Ozone Assessment  
Agency: Houston Advanced Research Center  
Agency Code: 4HRC00  
Revenue Source Code: 800  
Duration: 11/5/2004 to 2/28/2006  
Award Amount: \$30,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**

**Received During December, 2005**

Investigator: Dr. Kurt Marfurt, 50.00%  
Cost Center: G090731 / 5022 / H0451 / B0001  
Title: Research in Imaging New Types of Seismic Data  
Agency: Various Private Profit Agencies  
Agency Code: 3VAR00  
Revenue Source Code: 800  
Duration: 10/1/2004 to 9/30/2006  
Award Amount: \$10,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Michael Murphy, 100.00%  
Cost Center: G089867 / 5013 / H0109 / B0001  
Title: Collaborative Research: Investigation of Syn collisional Extension and Basin Development in the High Himalay  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 2/1/2005 to 1/31/2007  
Award Amount: \$58,730.00  
Type of Support: Grant for Research  
CFDA: 47.050 - Geosciences  
CB Designation: Restricted Research

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**Institute for Multidimensional Air Quality Studies**

Investigator: Dr. Daewon Byun, 50.00%  
Cost Center: G090800 / 5021 / H0429 / B0001  
Title: H45-S Modeling Strategy in Support of TexAQS-II and 8-Hour Ozone Assessment  
Agency: Houston Advanced Research Center  
Agency Code: 4HRC00  
Revenue Source Code: 800  
Duration: 11/5/2004 to 2/28/2006  
Award Amount: \$30,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**Mathematics**

Investigator: Dr. Yuriy Kuznetsov, 100.00%  
Cost Center: G005145 / 5022 / H0110 / B0001  
Title: Advanced Numerical Algorithms for Mathematical Problems of Basin Modeling  
Agency: ExxonMobil Upstream Research Co.  
Agency Code: 3EXX09  
Revenue Source Code: 800  
Duration: 9/1/2000 to 8/31/2006  
Award Amount: \$45,000.00  
Type of Support: Grant for Research  
CFDA:  
CB Designation: Restricted Research

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**Physics**

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**

**Received During December, 2005**

Investigator: Dr. Lawrence S. Pinsky, 100.00%  
Cost Center: G091869 / 5021 / H0112 / C0001  
Title: UH 2005 QuarkNet Program  
Agency: University of Notre Dame  
Agency Code: 7UNT00  
Revenue Source Code: 800  
Duration: 6/1/2005 to 5/31/2007  
Award Amount: \$12,650.00  
Type of Support: Contract for Public Service  
CFDA: 47.049 - Mathematical and Physical Sciences  
CB Designation: Non Research

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**COLLEGE OF OPTOMETRY**

**Community Optometry**

Investigator: Dr. Ruth E. Manny, 100.00%  
Cost Center: G087992 / 5022 / H0114 / B0001  
Title: ACHIEVE - University of Houston Clinical Center  
Agency: Ohio State University  
Agency Code: 7OSU00  
Revenue Source Code: 800  
Duration: 7/1/2003 to 6/30/2006  
Award Amount: \$23,462.00  
Type of Support: Grant for Research  
CFDA:  
CB Designation: Restricted Research

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**CULLEN COLLEGE OF ENGINEERING**

**Chemical Engineering**

Investigator: Dr. Vemuri Balakotaiah, 50.00%  
Cost Center: G091373 / 5013 / H0067 / B0001  
Title: Kinetic and Performance Studies of the Regeneration Phase of Model Pt/Ba/Rh Nox Traps for Design and Opt  
Agency: U. S. Department of Energy - National Energy Technology Laboratory  
Agency Code: DOE101  
Revenue Source Code: 500  
Duration: 10/1/2005 to 9/30/2009  
Award Amount: \$65,000.00  
Type of Support: Co-Op Agreement for Research  
CFDA: 81.117 - Energy Efficiency and Renewable Engery Information Disse  
CB Designation: Restricted Research

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**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**

**Received During December, 2005**

Investigator: Dr. Michael Harold, 50.00%  
Cost Center: G091373 / 5013 / H0067 / B0001  
Title: Kinetic and Performance Studies of the Regeneration Phase of Model Pt/Ba/Rh Nox Traps for Design and Opt  
Agency: U. S. Department of Energy - National Energy Technology Laboratory  
Agency Code: DOE101  
Revenue Source Code: 500  
Duration: 10/1/2005 to 9/30/2009  
Award Amount: \$65,000.00  
Type of Support: Co-Op Agreement for Research  
CFDA: 81.117 - Energy Efficiency and Renewable Engery Information Disse  
CB Designation: Restricted Research

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Investigator: Dr. Ramanan Krishnamoorti, 100.00%  
Cost Center: G091991 / 5013 / H0067 / B0001  
Title: Innovative Lightweight Armor  
Agency: Materials Modification, Inc.  
Agency Code: 3MMI00  
Revenue Source Code: 800  
Duration: 10/1/2005 to 1/30/2006  
Award Amount: \$25,000.00  
Type of Support: Contract for Research  
CFDA: 12.910 - Research and Technology Development  
CB Designation: Restricted Research

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Investigator: Dr. Ramanan Krishnamoorti, 10.00%  
Cost Center: G085927 / 5015 / H0073 / B0001  
Title: Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles - MASTER ACCOUNT  
Agency: Texas A&M Engineering Experiment Station  
Agency Code: 1TAM10  
Revenue Source Code: 600  
Duration: 8/19/2002 to 8/18/2007  
Award Amount: \$17,131.50  
Type of Support: Co-Op Agreement for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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Investigator: Dr. Kishore K. Mohanty, 100.00%  
Cost Center: G089431 / 5013 / H0067 / B0001  
Title: NMR Well Logging and Special Core Analysis for Fluid-Rock Characterization  
Agency: Rice University  
Agency Code: 7RIC00  
Revenue Source Code: 800  
Duration: 9/17/2004 to 9/16/2006  
Award Amount: \$55,000.00  
Type of Support: Co-Op Agreement for Research  
CFDA: 81.089 - Fossil Energy Research and Development  
CB Designation: Restricted Research

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**Civil Engineering**

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During December, 2005**

Investigator: Dr. William G. Rixey, 100.00%  
Cost Center: G091653 / 5022 / H0068 / B0001  
Title: The Impact of E95 and E10 on BTEX and Other Hydrocarbons in Ground Water: Quantifying Source Generat  
Agency: American Petroleum Institute  
Agency Code: 4API00  
Revenue Source Code: 800  
Duration: 6/1/2005 to 8/28/2006  
Award Amount: \$74,877.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**Electrical Engineering**

Investigator: Dr. Xuemin Chen, 25.00%  
Cost Center: G091944 / 5016 / H0070 / B0001  
Title: Laser Texture Measurement Devices  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2007  
Award Amount: \$60,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Jing Li, 25.00%  
Cost Center: G091944 / 5016 / H0070 / B0001  
Title: Laser Texture Measurement Devices  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2007  
Award Amount: \$60,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. C.E. Richard Liu, 50.00%  
Cost Center: G091944 / 5016 / H0070 / B0001  
Title: Laser Texture Measurement Devices  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2007  
Award Amount: \$120,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**

**Received During December, 2005**

Investigator: Dr. Jaroslaw Wosik, 20.00%  
Cost Center: G091955 / 5015 / H0452 / B0001  
Title: MR Image Analysis in MS: Identificaton of a Surrogate - Bhat  
Agency: University of Texas Health Science Center at Houston  
Agency Code: 1UTX11  
Revenue Source Code: 600  
Duration: 8/1/2005 to 7/31/2006  
Award Amount: \$277.79  
Type of Support: Grant for Research  
CFDA: 93.286 - Biomedical Imaging Research  
CB Designation: Restricted Research

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**Industrial Engineering**

Investigator: Dr. Hamid Parsaei, 50.00%  
Cost Center: G092023 / 5015 / H0281 / C0001  
Title: Texas Manufacturing Assistance Center (Year 11)  
Agency: University of Texas at Arlington  
Agency Code: 1UTX80  
Revenue Source Code: 600  
Duration: 9/1/2005 to 12/15/2005  
Award Amount: \$267,371.50  
Type of Support: Co-Op Agreement for Public Service  
CFDA: 11.609 - Measurement and Engineering Research and Standards  
CB Designation: Non Research

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Investigator: Dr. Lawrence J. H. Schulze, 100.00%  
Cost Center: G090018 / 5015 / H0072 / B0001  
Title: Southwest Center for Occupational Environmental Health  
Agency: University of Texas School of Public Health  
Agency Code: 1UTX12  
Revenue Source Code: 600  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$10,129.00  
Type of Support: Grant for Research  
CFDA: 93.859 - Pharmacology, Physiology, and Biological Chemistry  
CB Designation: Restricted Research

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**Mechanical Engineering**

Investigator: Dr. Yi-Chao Chen, 10.00%  
Cost Center: G085927 / 5015 / H0073 / B0001  
Title: Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles - MASTER ACCOUNT  
Agency: Texas A&M Engineering Experiment Station  
Agency Code: 1TAM10  
Revenue Source Code: 600  
Duration: 8/19/2002 to 8/18/2007  
Award Amount: \$17,131.50  
Type of Support: Co-Op Agreement for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**

**Received During December, 2005**

Investigator: Dr. Matthew Franchek, 100.00%  
Cost Center: G091704 / 5015 / H0073 / B0001  
Title: Magnetic Resonance of Spinal Cord Injury - Deo  
Agency: University of Texas Health Science Center at Houston  
Agency Code: 1UTX11  
Revenue Source Code: 600  
Duration: 4/1/2005 to 3/31/2006  
Award Amount: \$883.63  
Type of Support: Grant for Research  
CFDA: 93.853 - Clinical Research Related to Neurological Disorders  
CB Designation: Restricted Research

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Investigator: Dr. Karolos M. Grigoriadis, 20.00%  
Cost Center: G085927 / 5015 / H0073 / B0001  
Title: Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles - MASTER ACCOUNT  
Agency: Texas A&M Engineering Experiment Station  
Agency Code: 1TAM10  
Revenue Source Code: 600  
Duration: 8/19/2002 to 8/18/2007  
Award Amount: \$34,263.00  
Type of Support: Co-Op Agreement for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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Investigator: Dr. Fazle Hussain, 10.00%  
Cost Center: G085927 / 5015 / H0073 / B0001  
Title: Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles - MASTER ACCOUNT  
Agency: Texas A&M Engineering Experiment Station  
Agency Code: 1TAM10  
Revenue Source Code: 600  
Duration: 8/19/2002 to 8/18/2007  
Award Amount: \$17,131.50  
Type of Support: Co-Op Agreement for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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Investigator: Dr. Lewis T. Wheeler, 10.00%  
Cost Center: G085927 / 5015 / H0073 / B0001  
Title: Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles - MASTER ACCOUNT  
Agency: Texas A&M Engineering Experiment Station  
Agency Code: 1TAM10  
Revenue Source Code: 600  
Duration: 8/19/2002 to 8/18/2007  
Award Amount: \$17,131.50  
Type of Support: Co-Op Agreement for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During December, 2005**

Investigator: Dr. David C. Zimmerman, 20.00%  
Cost Center: G085927 / 5015 / H0073 / B0001  
Title: Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles - MASTER ACCOUNT  
Agency: Texas A&M Engineering Experiment Station  
Agency Code: 1TAM10  
Revenue Source Code: 600  
Duration: 8/19/2002 to 8/18/2007  
Award Amount: \$34,263.00  
Type of Support: Co-Op Agreement for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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**Texas Manufacturing Assistance Center**

Investigator: Dr. William E. Fitzgibbon, 50.00%  
Cost Center: G092023 / 5015 / H0281 / C0001  
Title: Texas Manufacturing Assistance Center (Year 11)  
Agency: University of Texas at Arlington  
Agency Code: 1UTX80  
Revenue Source Code: 600  
Duration: 9/1/2005 to 12/15/2005  
Award Amount: \$267,371.50  
Type of Support: Co-Op Agreement for Public Service  
CFDA: 11.609 - Measurement and Engineering Research and Standards  
CB Designation: Non Research

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**DIVISION OF RESEARCH**

**TcSUH**

Investigator: Dr. Jaroslaw Wosik, 80.00%  
Cost Center: G091955 / 5015 / H0452 / B0001  
Title: MR Image Analysis in MS: Identificaton of a Surrogate - Bhat  
Agency: University of Texas Health Science Center at Houston  
Agency Code: 1UTX11  
Revenue Source Code: 600  
Duration: 8/1/2005 to 7/31/2006  
Award Amount: \$1,111.15  
Type of Support: Grant for Research  
CFDA: 93.286 - Biomedical Imaging Research  
CB Designation: Restricted Research

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**Texas Learning/Computation Center**

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During December, 2005**

Investigator: Dr. Costa M. Colbert, 10.00%  
 Cost Center: G091402 / 5013 / H0104 / B0001  
 Title: CRCNS: Computational and Optical Studies of Neural Input/Output Relationship  
 Agency: Baylor College of Medicine  
 Agency Code: 7BAY00  
 Revenue Source Code: 800  
 Duration: 9/15/2005 to 7/31/2006  
 Award Amount: \$19,795.00  
 Type of Support: Contract for Research  
 CFDA: 93.866 - Aging Research  
 CB Designation: Restricted Research

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Investigator: Dr. David J. Francis, 10.00%  
 Cost Center: G086443 / 5014 / H0288 / B0001  
 Title: Scaling up Assessment Driven Intervention Using the Internet and Handheld Computer  
 Agency: University of Texas Health Science Center at Houston  
 Agency Code: 1UTX11  
 Revenue Source Code: 600  
 Duration: 9/19/2002 to 9/18/2006  
 Award Amount: \$41,417.80  
 Type of Support: Grant for Research  
 CFDA: 47.076 - Education and Human Resources  
 CB Designation: Restricted Research

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**TIMES**

Investigator: Dr. David J. Francis, 70.00%  
 Cost Center: G086443 / 5014 / H0288 / B0001  
 Title: Scaling up Assessment Driven Intervention Using the Internet and Handheld Computer  
 Agency: University of Texas Health Science Center at Houston  
 Agency Code: 1UTX11  
 Revenue Source Code: 600  
 Duration: 9/19/2002 to 9/18/2006  
 Award Amount: \$289,924.60  
 Type of Support: Grant for Research  
 CFDA: 47.076 - Education and Human Resources  
 CB Designation: Restricted Research

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<b>Total Federal</b>	<b>\$195,961.00</b>
<b>Total State</b>	<b>\$1,390,710.57</b>
<b>Total Local</b>	<b>\$0.00</b>
<b>Total Other</b>	<b>\$696,766.00</b>
<b>TOTAL THIS MONTH</b>	<b>\$2,283,437.57</b>