

## REPORT OF PROPOSALS

For the Month of May/2004

| <u>Department</u>                                | <u>Investigator</u>        | <u>Sponsor</u>  | <u>Title</u>  | <u>Amount</u> |
|--|----------------------------|---|---|---------------|
| <b>BIOLOGY &amp;<br/>BIOTECHNOLOGY</b>           | Weathers, P.               | ICSC World<br>Laboratory                                  | Research on Mist Reactor for Hairy Rood Culture   | \$ 18,000     |
|  | Weathers, P.               | ICSC World<br>Laboratory                                  | Research on Artemisinin Production by Genetically<br>Engineered Hairy Roots of A. Annua                     | \$ 18,000     |
| <b>BIOENGINEERING<br/>INSTITUTE</b>              | Zhang, Q.                  | Department of<br>Defense                                  | Breast Tissue Classification and Cancer Detection Using<br>Multiple Modality Information                    | \$ 528,528    |
| <b>CHEMICAL ENG'G.</b>                           | Ma, Y.                     | Shell International .<br>Exploration &<br>Production, Inc | Ultra thin Pa & Pd/ Alloy Membranes for Hydrogen<br>Separation and Reaction Applications                    | \$1,259,470   |
| <b>CHEMISTRY &amp;<br/>BIOCHEMISTRY</b>          | McGimpsey, W.              | Triton Systems,<br>Inc.                                   | Solid Phase Extractant and Reflectance Medium for Infrared<br>Identification of Chemical Warfare Agents     | \$ 29,979     |
|  | Arguello, J.<br>*Wobbe, C. | Horticultural<br>Research Institute                       | Development of Heavy Metal Phytoremediation   | \$ 30,000     |
| <b>CIVIL &amp; ENVIRONMENTAL<br/>ENGINEERING</b> | Mallick, R.                | Maine Department<br>of Transportation                     | Determination of Laboratory and In-Place Structural Strength<br>Related Properties of Hot Mix Asphalt (HMA) | \$ 100,668    |
| <b>COMPUTER SCIENCE</b>                          | Fisler, K.                 | Northeastern<br>University                                | Computer Education for Every Student in Secondary Schools   | \$ 10,000     |

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|--|-----------------------------|-----------------------------------|--|--------------------|
| <b>ELECTRICAL &amp; COMPUTER ENGINEERING</b> | Clements, K.                | Miller Foster, Inc.               | Reconfigurable Electrical Power System   | \$ 29,506          |
|  | Ludwig, R.<br>*Sullivan, J. | U.S. Army Medical Research        | Novel RF Breast Cancer Screening Coil Configuration for Magnetic Imaging Systems | \$ 364,849         |
| <b>IGSD</b>                                  | Jiusto, S.<br>*Krueger, R.  | Massachusetts Tech. Collaborative | Green Buildings Case Studies   | \$ 59,952          |
| <b>MANAGEMENT</b>                            | Banks, M.<br>*Durgin, W.    | Florida Institute of Technology   | Partnership for Research in Innovation, Commercialization, and Entrepreneurship  | \$ 36,733          |
| <b>MECHANICAL ENG'G.</b>                     | Gatsonis, N.                | Busek, Co.                        | DSMC Modeling of Hypersonic Inlet Flows  | \$ 3,028           |
| <b>PHYSICS</b>                               | Lew Yan Voon, L.            | American Chemical Society-PRF     | Optical Properties of Wurtzite Nanorods, Nanowires, and Nanoribbons              | \$ 119,958         |
|  | <b>*CPI</b>                 |                                   | <b>Total</b>   | <b>\$2,608,671</b> |