

**Budget Justification Page**

A SENIOR PERSONNEL: The PI is requesting a **teaching reduction** buyout at **\$13,868**/year, plus a 4% increase each year.

B OTHER PERSONNEL:

1. Six quarters per year of **graduate student** support at **\$2,124**/month salary per student with an increase of 4% each year.
2. One **postdoctoral fellow** who will work 50% time on SAGE development: **\$24,000**/each per year, plus a 4% increase each year. The UW math department will contribute matching funds.
3. One **full time employee** who will work on development at \$12/hour, 40 hours a week for the 9 month academic year: **\$17,280**/year.

C FRINGE BENEFITS:

1. Fringe benefits for the PI's salary will be 23.8%.
2. Fringe benefits for the postdoctoral fellow will be 23.8%.
3. Fringe benefits for graduate students will be 13.4%.
4. Fringe benefits for staff employees will be 30.9%.

D EQUIPMENT: Funds to purchase a regular selection of the latest computer hardware for algorithm testing, benchmarking, and building of SAGE binaries (64-bit MacPro, Mac G5, and an Itanium workstation): **\$15,000**/year.

E TRAVEL:

1. **Visitors:** Support for **research visitors** who will work on SAGE: **\$4,000**/each for four month-long visits per year. (\$500 travel, \$500 food, 30 × \$100/day for hotel): **\$16,000**/year.
2. **One SAGE Days Workshop (Participant Costs):** Support for 15 fully supported participants: **\$15,000**/year.

F OTHER DIRECT COSTS:

1. **Material and Supplies:**

- Money for **scientific books** and **software** that will be required by the postdocs for their research. For example, money to purchase books about describe new computer technology that may be used to enhance SAGE. **\$500**/year.
- Materials and Publication costs: **\$500**/year.

I INDIRECT COSTS:

1. Facilities and Administrative costs of 55.5% (year 1) and 56% (in years 2 and 3) are based on the University of Washington's current indirect cost rate with DHHS, negotiated on 11/16/2006, and are applied only to Modified Total Direct Costs.,