

## Budget Justification from UT Dallas

**Salaries and Wages.** Salaries for all personnel are based upon current University of Texas at Dallas (UTD) academic and staff salary scales. Salaries for the Principal Investigator (PI) budget calculations include a 3% annual increase.

Zhiqiang Lin, the PI from UTD, will make a strong commitment to the proposed work. He will be responsible for overall project direction and coordination, for assuring successful project completion, including submission of progress reports, supervision of the graduate students, dissemination of research results, outreach and educational activities. We request summer salary support at a level of 0.5 month in year one and year two, 0.6 month in year three, and one month in year four for this project.

We request salary support for three graduate research assistants (RA) in year one and year two, and two RAs in year three and year four, respectively, at 50% time during the academic year and at 100% time during the summer months. The role of the graduate research assistants includes engaging in the proposed research tasks and system development efforts, participating regular meetings and the research publications, and presenting the research results in academic conferences.

**Fringe Benefits.** Employee benefits were estimated in accordance to commonly applied or historical rates used. UTD fringe benefit rates are 20% of salary and 15% for graduate students during the academic year and summer months.

**Travel.** A total of two domestic and one international trip are requested for the involved graduate students or the PIs to attend technical conferences (e.g., Oakland, CCS, USENIX Security, NDSS, SOSP, OSDI, etc.) and workshops that are relevant to the project's overall research, and for scientific exchange. There will be also one domestic trip to visit the leading institute Georgia Tech, for student exchange or other research meetings. For the annual SaTC PI meeting, Dr. Lin will use the support from his NSF CAREER award. Domestic trips are estimated at \$2,000 each round-trip and foreign trips are at \$3,000 each round-trip. Expenses include estimates for airfare, ground transportation, hotel accommodations, registration for conferences and workshops (if applicable), and per diem. More specific itemized budget is presented in Table 1.

Destination	Registration	Airfare	Ground Transportation	Hotel Accommodations	Meals (Per Diem)	Total
Domestic Conference	700	600	100	500	200	2100
Domestic Conference	700	500	100	500	200	2000
Leading Institute Site Visit	-	800	100	500	200	1900
International Conference (Europe or Asia)	700	1300	200	500	300	3000

Table 1: Detailed Budget for the Conference Travel.

**Materials and Supplies.** We request \$6,000 for purchasing two desktops and one server machine with the new Intel SGX chips. This will be used by the involved graduate research assistants to develop and evaluate the research prototypes for this project.

**Indirect Costs.** Indirect costs were estimated in accordance with UTDs rate agreement, which was approved by DHHS, the Federal Cognizant Audit Agency for UTD on 7/24/12. The organized research F&A cost rate of 53% MTDC was used based on the nature of the proposed work.