**Emory Justification**

**Salary**

One month summer salary in each year of the project is requested to free the PI from teaching in order to conduct a significant portion of the proposed research. Fringe benefits for faculty members at Emory are currently 30% of salary. A 3% raise per year is projected.

The proposed research provides an excellent opportunity for a motivated Ph.D. student working on a dis- sertation in large-scale scientific computing on emerging architectures. The Ph.D. program in Computational Mathematics at Emory University has a strong history of attracting top graduate students, many of whom went on to successful careers in academia, government, and industry, including several females. Funds to support a full-time (academic year) Ph.D. student are requested for each of the three years of the project. Student salary is $19,500 for the first year, with a 3% raise per year. Additionally, funds to cover the student’s enrollment fees totaling $2,813/year are being requested.

**Travel**

Travel support to attend meetings with the other project investigators plus one relevant conference per year, for a total of $6,116 in year one, $6,353 year two, and $6,598 in year three is requested.