connect with IACS
✦ apply for the Master of Science or Master of Engineering in CSE: deadline December 15, 2014
✦ apply for the Graduate Secondary Field in CSE: deadlines March 1 and October 1
✦ join us for lunch and an IACS Seminar
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epsilon_ij = (2 * sqrt(epsilon_i*epsilon_j) * sigma_i)^6 / (sigma_i^6 + sigma_j^6 + sigma_ij^6 + sigma_i*sigma_j*6)^1/6
f(x + e_i, t) = f_i(x) + Omega_i(f(x,t))

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The design of the new CSE courses and activities is based on learning outcomes articulated in expert discussions about what knowledge and capabilities will empower future leaders in the field. Specifically, a student completing the CSE program should be able to:

✦ produce a computational solution that is reproducible and comprehensible
✦ communicate across disciplines and collaborate in a team
✦ model complex systems appropriately
✦ use computation for advanced data analysis
✦ create or enable a breakthrough in a domain of science
✦ take advantage of parallel and distributed computing, both in algorithms and code implementation
✦ evaluate and compare multiple computational approaches to a challenge and choose the most appropriate and efficient one
✦ apply software engineering techniques and tools to build robust, reliable and maintainable software.

The new curriculum has been shaped by dialogue between Harvard faculty and leaders of CSE in industry and the National Laboratories.

The emerging curriculum and community are broad and eclectic. They draw on Harvard’s vibrant collaborative environment and the strengths of the Applied Mathematics and Computer Science faculty.

The program offers:

✦ a one-year Master of Science degree and two-year Master of Engineering
✦ a Secondary Field in Computational Science and Engineering for all Harvard Ph.D. students
✦ popular core courses in Numerical Methods, Stochastic Optimization, Computing Foundations and Systems Development and an array of electives

The Institute for Applied Computational Science (IACS) is the mission of the Institute for Applied Computational Science, launched in September 2010 by Cherry A. Murray, Dean of the Harvard School of Engineering and Applied Sciences (SEAS).

Dean Murray charged IACS with:

✦ creating an institutional home for faculty and students applying computational methods to major challenges in science
✦ enhancing existing courses in applied mathematics and computation
✦ developing new computational science and engineering courses, activities and research opportunities for Harvard students from across the sciences

Applications for fall 2015 admission to the Master of Science and Master of Engineering degree programs will be accepted through December 15, 2014.