SYSTEMS RESEARCH CONSORTIUM

The Systems Research Consortium (SRC) is a new initiative from the Department of Computer Science at The University of Texas at Austin that seeks to forge a close relationship between university, faculty and graduate students in systems-related fields and our natural partners in industry. Due to fundamental technological advances, systems research will be a huge growth area over the coming years, both academically and economically and will play an increasingly critical role in pushing the computing field forward. The Systems Research Consortium seeks to capitalize on that growth by creating an exchange in which affiliate partners benefit from access to cutting edge knowledge and top talent while the university gains a clearer understanding of the practical challenges confronting industry.

Systems Research

Computing applications continue to evolve. Systems research focuses on advancing the core of computing technologies in order to support and greatly advance a wide variety of industries and application areas. UT's Systems Research Consortium faculty and students manage several labs and conduct world-class systems research in the areas outlined below:

- Data centers: Architecture, network and server infrastructure, energy-efficiency.
- Architecture: Heterogeneity, accelerators, FPGA and GPGPU architecture.
- Operating systems: Concurrency control, storage systems, virtualization, transactions, crash-consistency.
- Secure systems: Mandatory access control, information flowm, secure cloud computing.
- Distributed systems: Replicated state machines, fault tolerance, failure detectors.
- Communication networks: Network architecture, network measurement, management, and security; Network protocol design; Network applications and services.

Core Faculty

VIJAY CHIDAMBARAM

Assistant Professor
Computer Science
Operating Systems, Distributed Systems, Storage

SIMON PETER

Assistant Professor
Computer Science
Operating Systems, Networks

CHRIS ROSSBACH

Assistant Professor
Computer Science
Operating Systems, Synchronization, Parallel Architectures

EMMETT WITCHEL

Professor
Computer Science
Operating Systems, Architecture, Security

Sponsorship Benefits

INDUSTRY ENGAGEMENT & VISIBILITY

Two free registrations to the Texas Systems Research Symposium[1], and two invitations to the Symposium's VIP dinner and networking event.

Opportunity for increased engagement with students through classroom interaction, such as projects and/or mentorship in systems-related courses.

Engage in tailored one-on-one research discussions with consortium faculty.

Easy access to consulting through SRC contacts.

Facilitated access[2] to recruit highly qualified students for co-ops, internships and permanent positions that fulfill affiliate needs, including but not limited to dissemination of career and internship opportunities relevant to studies as provided by SRC affiliates.

Access to approved university facilities for on-campus interviews in conjunction with the Texas Systems Research Symposium and other recruiting events.

One technical talk[3] to interested students promoted by the SRC and relevant academic departments.

Invitation to attend systems-related talks and lectures conducted through relevant university speaker series[4].

Visiting lecturers and researchers may participate in in-class lecture series[4], student theses committees, and join in research with SRC faculty and students (subject to university guidelines).

Work on campus with SRC faculty, staff, and students for periodic consultation to learn about the most advanced technologies. Access to live demos and lab tours.

Ability to submit a nominee for Research Associate: Research Fellow or Visiting Researcher/Scholar[5].

Acknowledgement of sponsorship on SRC website and at all affiliated events.

COSTS

Affiliation is available to all outside companies and government agencies at a cost of $50,000 per academic year.

Interested in being a sponsor? Please contact:

Brent Winkelman
512.471.9793
blw@cs.utexas.edu

or

Katie Banks
512.232.7476
kbanks@cs.utexas.edu

brought to you by:

The University of Texas at Austin
Computer Science

Benefit Details Defined

The following information clarifies terms referenced under Sponsorship Benefits.

TEXAS SYSTEMS RESEARCH SYMPOSIUM[1]

An annual meeting is held on campus for all members of the program. This gathering provides an important opportunity to meet with faculty and students, exchange technical information and ideas with others, and obtain information on current and future developments in systems. This meeting emphasizes the importance of constant interaction and exchange between the university and our affiliate partners via workshops, student activities, research and personal contact. An important part of the affiliate's role is to ensure that faculty and students are aware of industrial conditions and needs, keeping them current on present development and future plans via a constant exchange of theory and methodology.

FACILITATED ACCESS TO STUDENTS[2]

Technical talks, networking, dissemination of career and internship opportunities, and on-campus interviews are just a few of the ways we work to connect our affiliates with top students. The Systems Research Consortium provides a powerful means by which companies can build out a robust talent pipeline.

TECHNICAL TALKS[3]

Technical talks are one of the cornerstones of academic exchange within UT Computer Science. Affiliates interested in increasing awareness on the nature of the work at their respective companies are encouraged to lead a technical discussion on the university campus for faculty and students. University staff will help facilitate room bookings and event promotion.

SYSTEMS SPEAKER SERIES[4]

Affiliates are invited to attend a variety of relevant speakers series and discussion opportunities at the University of Texas at Austin throughout the course of the academic year. Talks available through the series will be directly focused on systems related research, including topics covering operating and distributed systems, networking, security, storage and architecture. Affiliates will work directly with their staff relationship liaisons to identify topics of greatest interest and relevance.

RESEARCH FELLOW-VISITING RESEARCHER/SCHOLAR AFFILIATION[5]

Affiliates may nominate personnel as Systems Research Consortium visiting researchers or research fellows, who conduct relevant research on the University of Texas at Austin campus. All visitors must be actively collaborating with UTCS faculty for the duration of their stay. Visitors may use university resources and their own skills to further their personal interests, deepen their companies' knowledge of target topics, or both. Visiting researchers bring practical experience that enriches and informs intellectual exchange. Acceptance as a visiting researcher or fellow is subject to relevant university policies and guidelines on a space available basis.