

THE UNIVERSITY OF TEXAS AT DALLAS



THE ERIK JONSSON SCHOOL  
OF ENGINEERING & COMPUTER SCIENCE

## GRADUATE RECRUITING EVENTS

### Engineering & Computer Science Summits

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Summit Date:

SPRING SEMESTER 2007

Saturday, February 3

Location:

The Erik Jonsson School of Engineering & Computer Science (EJS), TI Auditorium ([Directions](#))

Start Time:

8:00 AM

### EVENT SUMMARY

Thinking about a graduate degree in engineering or computer science? Then don't miss the Jonsson School Graduate Recruitment Summit at The University of Texas at Dallas.

Sponsored by UT Dallas' Erik Jonsson School of Engineering & Computer Science, this information packed, one-day Summit will answer your questions about advanced degrees in

- computer science
- software engineering
- electrical engineering
- computer engineering
- telecommunications engineering
- materials science and engineering

You can also learn about our newly proposed biomedical engineering program, tour our labs, and discuss graduate assistantships with Jonsson School professors who are doing cutting-edge research. You'll receive valuable information about UT Dallas, the Erik Jonsson School, degree plans, scholarships, admissions, and financial aid. Student leaders will be on hand to help you learn about college life, student organizations, and co-op programs. And, during your customized campus tour, you'll get a peek at the Waterview Park Apartments, UTD's on-campus housing.

Why might engineering or computer science at the Jonsson School be right for you?

- We're the United States' fastest-growing engineering school
- One of the top 3 universities nationwide awarding the largest combined number of B.S., M.S., and Ph.D. degrees in computer science and engineering

- The Jonsson School awards more computer science degrees to women than any other school in America
- We have the 3rd largest number of female faculty members among U.S. computer science departments organized within engineering schools
- There are more than 800 high-tech firms within a five-mile radius of UT Dallas
- Ours is the largest Industrial Practice Program in Texas and the third largest voluntary program in the nation
- New \$85 million, state-of-the-art Natural Science and Engineering Research Building
- All classes taught by professors

Excellence in engineering and computer-science education has always been our highest priority. Through a \$300 million initiative cosponsored by Texas Instruments, The University of Texas System and private sources, we are [building new facilities](#), doubling the size of the faculty and student body, adding 25 endowed chairs, and increasing graduate fellowships to attract even more top talent.

When you study at UTD, you'll take classes and work in labs housed in the \$12 million Engineering & Computer Science Complex; you'll rub shoulders with leading researchers whose labs are in the just-completed, 300,000-square-foot Natural Science and Engineering Research Laboratory; you'll discover hands-on learning in our three institutes, eight centers of excellence, and 48 specialized research labs.

**The Jonsson School at UT Dallas is something special. And so are your plans for graduate school.** We know you'll be impressed with the students, faculty, staff, and academic programs that comprise the Erik Jonsson School of Engineering & Computer Science at The University of Texas at Dallas.

The Jonsson School is making history. Join us.

[Register](#) for an Engineering and Computer Science Summit now!

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#### SUMMIT AGENDA (check back often for updates)

8:00 AM

Registration/Check-in, Continental Breakfast, UTD Student Mentor-For-A-Day Assignments

*EJS South Lobby*

8:30 AM

FEARLESS engineering Graduate Summit Welcome

*Dr. Robert Helms, Dean, Erik Jonsson School*

*EJS TI Auditorium (2.102)*

9:00 AM

Session I-"From Prospect to Applicant to Admitted to Enrolled"

This session will include a history of The University of Texas at Dallas, the birth of the Erik Jonsson School, the importance of our location in Richardson, TX and Telecom Corridor. In addition, we will explain the admissions process as well as what happens once you have been admitted to UT Dallas in regards to housing, financial aid/scholarships, and orientation/registration.

*Barry Samsula, Asst. Dean*

*EJS TI Auditorium (2.102)*

10:00 AM

BREAK

10:30 AM

Session II- "Okay, you have my attention. Now, tell me more about the academic majors and how I decide on an area of research."

Professors will explain the intricacies of each major including degree plans, areas of concentration, research, qualifying exams, etc. This will be a perfect time for students to determine which professors they want to meet with and which labs they want to tour after lunch.

Session II Schedule:

10:30 a.m. – 10:40 a.m. Computer Science, Software Engineering  
Dr. Kang Zhang, EJS South, TI Auditorium 2.102

10:40 a.m. – 10:50 a.m. Telecommunications Engineering  
Dr. Ravi Prakash, EJS South, TI Auditorium 2.102

10:50 a.m. – 11:00 a.m. Computer Engineering  
Dr. Bill Pervin, EJS South, TI Auditorium 2.102

11:00 a.m. – 11:10 a.m. Electrical Engineering  
Dr. Poras Balsara, EJS South, TI Auditorium 2.102

11:10 a.m. – 11:20 a.m. Materials Science & Engineering  
Dr. Robert Wallace, EJS South, TI Auditorium 2.102

11:20 a.m. – 11:30 a.m. Biomedical Engineering  
Dr. Philipos Loizou, EJS South, TI Auditorium 2.102

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11:30 AM  
Campus Tour – includes a look at a model apartment in the Waterview Park Apartment Complex

12:30 PM  
Lunch  
Student Union, Regency Room

1:30 PM  
Open House–Faculty will provide students with a tour of the labs specific to their research, explain their area of concentration within the major, review resumes and provide information and guidance regarding available assistantships. Students can visit as many areas of interest from the options listed below. Be sure and plan your afternoon based on faculty availability.

### Open House Schedule (1:30–4:30)

#### ELECTRICAL ENGINEERING

1:30 p.m. – 2:30 p.m. Signal & Image Processing  
Established to conduct research in various aspects of signal and image processing.  
Dr. Kehtarnavaz and Grad Students, ECSN 4.406  
<http://www.utdallas.edu/~nxk019000/kehtar@utdallas.edu>

1:30 p.m. – 2:30 p.m. UTD–UTSW Acoustic Research Lab  
Issa Panahi, ECSN 2.322  
[imp015000@utdallas.edu](mailto:imp015000@utdallas.edu)

1:30 p.m. – 4:30 p.m. Multimedia Communications Lab  
Aria Nosratinia, ECSN 4.206  
The central theme of our research is the application of information theory and coding theory to various challenges in the fields of communication and signal processing. Lately our research has concentrated on the areas of wireless networks (relay and cooperative networks) and medical imaging (functional magnetic resonance imaging, or fMRI). Interestingly, certain tools and insights from statistics and information theory are applicable to both these areas. We invite you to read about some of our past research projects below.  
<http://www.utdallas.edu/~aria/aria@utdallas.edu>

2:30 p.m. – 4 p.m. SoC Design & Test Lab  
Mehrdad Nourani, ECSN 4.624  
Signal Integrity Fault Modeling and Testing in High-Speed SoCs  
<http://www.utdallas.edu/~nourani/nourani@utdallas.edu>

3:30 p.m. – 4:30 p.m. Optical Communications Lab

Kamran Kiasaleh, ECSN 3.510

[kamran@utdallas.edu](mailto:kamran@utdallas.edu)

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## COMPUTER SCIENCE

1:30–3:30 Bioinformatics and Medical Computing

Ovidiu Daescu, ECSS 4.612

Discovers and implements algorithms that facilitate the understanding of biological processes through the application of statistical, data mining, and machine learning techniques. We are also dedicated to the creation of useful, flexible software to help bench scientists, students, and non-specialists find the answers to biologically significant questions.

[www.utdallas.edu/~daescu](http://www.utdallas.edu/~daescu)

[daescu@utdallas.edu](mailto:daescu@utdallas.edu)

1:30–3:30 Speech and Language Processing

Yang Liu, ECS 4.415

Modern speech signal processing and language technology with an emphasis on fundamental engineering breakthroughs balanced with core foundations in speech and hearing sciences.

<http://www.hlt.utdallas.edu/~yangl/>

[yangl@hlt.utdallas.edu](mailto:yangl@hlt.utdallas.edu)

1:30–2:30 VIZA Lab: VisualiZation and Agent technology Lab

Rym Mili, ECSS 4.220

<http://www.utdallas.edu/~rmili/lab/index.htm>

[rmili@utdallas.edu](mailto:rmili@utdallas.edu)

3:30–4:30 Multimedia Systems & Networking Lab: Research on content-based retrieval of multimedia, and streaming multimedia with a current focus on 3D models and 3D motions database.

B. Prabhakaran, ECSS 4.416

Motion Capture Lab: Research on 3D human motion analysis, handling a large archive of 3D human motions using indexing and related techniques.

B. Prabhakaran, ATEC Building

<http://www.utdallas.edu/~praba/>

[praba@utdallas.edu](mailto:praba@utdallas.edu)

3:30–4:30 Visual Computing Lab: Visual Software Engineering, Data Mining, Information Visualization

Kang Zhang, ECSS 3.221

<http://viscomp.utdallas.edu/>

[kzhang@utdallas.edu](mailto:kzhang@utdallas.edu)

3:30 – 4:30 Motion Capture Lab

B. Prabhakaran, ATEC Building

Students who want to tour the Motion Capture Lab should meet with Dr. Prabhakaran in ECSS 4.416. They will be escorted to the ATEC Building and provided with information regarding research on 3D human motion analysis and handling a large archive of 3D human motions using indexing and related techniques.

[www.utdallas.edu/~praba/](http://www.utdallas.edu/~praba/)

[praba@utdallas.edu](mailto:praba@utdallas.edu)

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## SOFTWARE ENGINEERING

1:30–2:30 Modularization and re-use in requirements engineering and software architecting

Kendra Cooper, ECSS 3.618

Component based software engineering, aspect-oriented software development, product-line engineering)

[www.utdallas.edu/~kcooper](http://www.utdallas.edu/~kcooper)

[kcooper@utdallas.edu](mailto:kcooper@utdallas.edu)

3:30 – 4:30 Applied Logic, Programming Languages and Systems Lab

Gopal Gupta, ECSN 4.621

Research in programming languages, software engineering, parallel and distributed computing, human computer interfaces, and intelligent systems.

[guptal@utdallas.edu](mailto:guptal@utdallas.edu)

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## TELECOMMUNICATIONS ENGINEERING

2:30 – 4:30 p.m. Distributive Systems Processing Lab  
EJS 4.213 & 4.214

Dr. Ravi Prakash and his grad students will demonstrate and explain the various types of research being conducted in the telecommunications industry.

The *Distributed Systems Laboratory* conducts research in distributed and networked systems. One major area of research is *Mobile Ad Hoc Networks (MANETs)*. Work centers around the following problems; wireless channel allocation strategies, use of unidirectional links, location management, characterization of bursty traffic, medium access control, link level communication, adaptive routing protocols and transport layer issues. We develop tools and conduct simulations to model the characteristics of the problems being dealt with, to suggest appropriate solutions and to analyze the effectiveness of those solutions.

Dr. Ravi Prakash

[www.utdallas.edu/~ravip/](http://www.utdallas.edu/~ravip/)

[ravip@utdallas.edu](mailto:ravip@utdallas.edu)

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## MATERIALS SCIENCE & ENGINEERING

1:30 PM – 4:30 p.m.

Nano Integration Research Lab: Hetero-X on Si, Scaled MEMS/NEMS, Nano-Electronic Materials, NanoStudio 3-D Fabrication & Manipulation, Ultra Low-K Dielectrics, Nano Scale Strains in Si CMOS

Dr. Moon Kim, ECN 2.508

Dr. Moon Kim will provide a tour of the electron microscopy area and visit with students about his research and answer questions.

[www.utd.edu/~mjk034000](http://www.utd.edu/~mjk034000)

[moonkim@utdallas.edu](mailto:moonkim@utdallas.edu)

1:30 – 4:30

ECSN 2.226

Drs. Walter Hu & Erick Vogel will provide window tours of the Eric Jonsson School's cleanroom/electrical test area and visit with students about their research and answer questions.

Interests include the combination of top-down lithography and bottom-up self-assembly approaches for biomedical, photonic, and molecular nanodevices and nanosystems. current on-going projects include: nanoimprint process development, diamond like carbon stamp technology, angular scattering optical metrology (ASOM), advanced biomaterials for tissue engineering, nanoscale organic light emitting diodes (nano-OLEDs), polymeric solar cells, & nanotubular capsules for drug delivery and MRI imaging.

Dr. Wenchuang (Walter) Hu

[www.utdallas.edu/~walter.hu](http://www.utdallas.edu/~walter.hu)

[wxh051000@utdallas.edu](mailto:wxh051000@utdallas.edu)

1:30 – 4:30

ECN 3.614

Drs. Walter Hu & Erick Vogel will provide window tours of the Eric Jonsson School's cleanroom/electrical test area and visit with students about their research and answer questions.

Interests include silicon-based microelectronic devices and materials (e.g. high-k dielectrics, silicon nanowire transistors, metal gate electrodes), organic-based devices and materials for applications such as RFID and flexible electronics, and nanoelectronic devices and materials for beyond CMOS (e.g. molecular electronics, nanowires).

Dr. Erick Vogel

<http://www.utdallas.edu/~exv061000>

[eric.vogel@utdallas.edu](mailto:eric.vogel@utdallas.edu)

3:30 – 4:30 Natural Science and Engineering Lab Research (NSERL) Building

**ECSS 2.102**

Dr. Jiyoung Kim will escort students through the \$85M Natural Science and Engineering Lab Research (NSERL) Building for an extensive tour of this new facility. The tour will leave from the T.I. Auditorium (EJS 2.102) at 3:20 PM.

[jxk041000@utdallas.edu](mailto:jxk041000@utdallas.edu)

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#### **BIOMEDICAL ENGINEERING**

1:30 – 4:30 Cochlear Implant Lab

EJN 4.414

Dr. Philipos Loizou, director of both the Speech Processing Lab and Cochlear Implant Lab will meet with students regarding his research, provide a tour of his labs and answer questions about how students can pursue a career in bioengineering research.

[www.utdallas.edu/~loizou/](http://www.utdallas.edu/~loizou/)

[loizou@utdallas.edu](mailto:loizou@utdallas.edu)

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4:30 PM

Pizza Party and Erik Jonsson School Student Organizations Fair, EJS South Lobby– Let's have some pizza, meet representatives from our EJS student organizations and call it a day! Turn in your evaluations and receive your free FEARLESS engineering tee shirt.

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