Lawson Computer Science Building
The Lawson building was developed with multiple spaces designed to foster collaboration and dialogue.
Students, faculty and staff meet weekly during the CS social hour.
It’s Happening Here!

• Big Data
• Biological Databases
• Cloud Computing
• Complexity Theory
• Concurrent Programming
• Data Mining
• Embedded Systems
• Information Retrieval
• Information Visualization
• Multi-Core Architectures
• Online Privacy
• Sensor Networks
47 Graduate Faculty:
- 29 Full Professors
- 13 Associate Professors
- 5 Assistant Professors
Multidisciplinary Efforts

Our faculty play a leading role in:

- **Center for Education and Research in Information Assurance and Security (CERIAS)**
  Eugene Spafford, Executive Director

- **Center for Science of Information (CSOI)**
  Wojciech Szpankowski, Director

- **Combinatorial Scientific Computing and Petascale Simulations (CSCAPES)**
  Alex Pothen, Director

- **Cyber Center** (Discovery Park)
  Elisa Bertino, Director

- **Indiana Center for Database Systems (ICDS)**
  Ahmed Elmagarmid, Founding Director
  Chris Clifton, Director
270 Graduate Students

- 31% past Qualifying Exams
- 16% Women
- 74% International Students
CS Degrees Awarded in 2013-2014

38 M.S.
18 Ph.D.
## Where our Grads went 2013-14

<table>
<thead>
<tr>
<th>Company Name</th>
<th>University Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google</td>
<td>Purdue University</td>
</tr>
<tr>
<td>Acelio</td>
<td>Lawrence Berkeley National Laboratory</td>
</tr>
<tr>
<td>Amazon</td>
<td>Miami University</td>
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<tr>
<td>eFolder</td>
<td>IBM Research</td>
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<tr>
<td>Facebook</td>
<td>Intel</td>
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<tr>
<td>Microsemi Corporation</td>
<td>Lawrence Berkeley National Laboratory</td>
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<tr>
<td>Pennsylvania State University</td>
<td>Intel</td>
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<tr>
<td>Simon Fraser University</td>
<td>Lawrence Berkeley National Laboratory</td>
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<tr>
<td>Symantec</td>
<td>Intel</td>
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<tr>
<td>Synopsys</td>
<td>Lawrence Berkeley National Laboratory</td>
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<tr>
<td>TellApart</td>
<td>Intel</td>
</tr>
<tr>
<td>Turn</td>
<td>Lawrence Berkeley National Laboratory</td>
</tr>
<tr>
<td>University of Waterloo</td>
<td>Intel</td>
</tr>
<tr>
<td>VMware</td>
<td>Lawrence Berkeley National Laboratory</td>
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</tbody>
</table>
Financial Support Fall 2014

- 98 Graduate RAs in CS
- 77 Graduate TAs in CS
- 18 Graduate Fellows
Financial Support Fall 2014

- Tuition and fees for graduate assistants and fellows is about $606 per academic year.
- International students pay an additional $160.
- Salary for graduate assistants starts at $16,146 per academic year.
- Medical insurance for graduate assistants is approximately $461 per year. Purdue also contributes to the healthcare costs of fellows and dependents of graduate assistance.
Graduate Student Board
The Graduate Student Board (GSB) is a link between CS graduate students, faculty, and administration.

The GSB’s goals are:
• help incoming students
• suggest ways of improving the program
• participate in decisions in various committees
• administer travel grants for grad students
• promote social activities

www.cs.purdue.edu/gsb/
Corporate Partners Program

The program fosters communications and mutually beneficial relationships between select companies and the department:

- Fellowships
- Posting of Positions by Companies
- CS Career Fair
- Technical Talks
- CPP meetings Fall and Spring
Corporate Partners Program

Corporate Partners especially interested in hiring PhD Students in 2014-2015:

<table>
<thead>
<tr>
<th>Allston Trading</th>
<th>Hulu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amazon</td>
<td>Humana</td>
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<tr>
<td>Bloomberg</td>
<td>Informatica</td>
</tr>
<tr>
<td>Booz Allen Hamilton</td>
<td>Intel</td>
</tr>
<tr>
<td>Chicago Trading Company</td>
<td>Interactive Intelligence</td>
</tr>
<tr>
<td>CyberMetrix</td>
<td>Northrop Grumman</td>
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<tr>
<td>Enova</td>
<td>Qualcomm</td>
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<tr>
<td>Epic</td>
<td>Sandia National Laboratories</td>
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<tr>
<td>ExactTarget</td>
<td>Sears Holdings</td>
</tr>
<tr>
<td>Facebook</td>
<td>VMware, Inc.</td>
</tr>
<tr>
<td>Fluke Networks</td>
<td>Yelp, Inc.</td>
</tr>
<tr>
<td>Google</td>
<td></td>
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</tbody>
</table>
Dr. C. Mohan, IBM Research - Almaden
“Implications of Storage Class Memories on Software and Hardware Architectures”
Friday, August 31, 2012
3:30 p.m.

Prof. John Hopcroft, Cornell University
“New Directions in Computer Science”
Friday, September 21, 2012
3:30 p.m.

Dr. Iain Duff, Rutherford Appleton Laboratory & CERFACS
“Solving Large Sparse Linear Systems: The Exascale Challenge”
Thursday, November 1, 2012
3:30 p.m.

Prof. Tom Mitchell, Carnegie Mellon University
“Never Ending Learning”
Thursday, November 15, 2012
3:30 p.m.

Each lecture will take place in the Lawson Computer Science Building Room 1142 with a reception to follow.
All lectures and receptions are free, open to the public, and sponsored by the Department of Computer Science. This special 50th Anniversary lecture series will continue in Spring 2013. See 50th.cs.purdue.edu for details.
Facilities

- Access to the NSF TeraGrid
- 3D graphics and high resolution displays
- Gigabit wired connections, as well as wireless and mobile networks
- Multiple compute clusters
- Workstations with 60 terabytes of storage capabilities
Teamwork is an integral part of computing—and Purdue Computer Science is creating innovative instructional laboratories that support team projects.
CS Graduate Curriculum

- Master’s Program (also online)
- Doctoral Program
- Multidisciplinary Programs
  - Computational Science and Engineering
  - Computational Life Sciences
  - Statistics-Computer Science Joint Masters
CS Graduate Curriculum

Master’s Program
• ten three credit courses or
• eight three credit courses and a thesis

Doctoral Program
• three research courses
• nine three-credit courses
• a qualifying process involving four written examinations and an oral examination
• a preliminary examination
• a thesis
Computational Life Sciences

- an interdisciplinary graduate program
- offers M.S. and Ph.D. degrees
- aims to produce students who have learned about computational tools and techniques in the life sciences. These skills, in turn, will help prepare them for discovery and implementation of algorithms that facilitate the understanding of biological processes.
Computational Science & Engineering

- an interdisciplinary graduate program
- offers M.S. and Ph.D. degrees
- provides students with the opportunity to study a specific science or engineering discipline along with computing in a multidisciplinary environment.
CS and ECE Interactions

• Joint supervision of graduate students
• Courtesy appointments for faculty
• Cross listed courses
• Joint research projects
• Complementary research in networking and compilers
• Computer Engineering covers:
  – Architecture
  – Artificial Intelligence
  – Image Processing
  – Vision
West Lafayette Campus
Location

- in West Lafayette, Indiana
- on the Wabash River
- across from Lafayette
- 122 miles SE of Chicago
- 65 miles NW of Indianapolis
Fall 2013 Facts about Purdue

- Public, doctoral-granting research university
- 1,820 Tenured/Tenure-Track Faculty
- 29,440 Undergraduate Students
- 8,407 Graduate Students
- 37.4 % Graduate Women
- 123 Countries (entire student body)
Student Groups

- Over 600 Student Organizations
- Purdue Student Union Board
- Purdue Graduate Student Government
Cultural Life

- Black Cultural Center performing ensembles
- Purdue Convocations
- Purdue Repertory Dance Company
- Purdue Symphony Orchestra
- Purdue Theatre
- Purdue University Bands
Big Ten Athletics

Division I NCAA Sports
• Football
• Basketball
• Volleyball
Admission Criteria

- CS course background
- GPA
- Letters of recommendation
- Research experience and publications
- Statement of purpose
Admission Requirements

- Familiarity with data structures and their implementations in different languages
- An understanding of computer architecture, compilers, operating systems, the analysis of algorithms, networks, and programming languages
- Knowledge of mathematics through differential equations, linear and matrix algebra, and numerical methods.
- Proficiency in a programming language such as Java, C, or C++. 
Fall Deadline is December 15

• submit an Electronic Graduate School Application
• ask your references to submit Letters of Recommendation
• ask the registrar to submit to us your Transcripts
• submit TOEFL, TWE and TSE scores, if required
• pay the Application Fee
Grad School? Why?

Because…

• The knowledge base of a graduate education is becoming increasingly valuable.

• A graduate education
  – gives access to more career opportunities and more interesting jobs
  – translates to jobs generally unlikely to face global outsourcing
  – provides more flexibility to shift between projects and assignments
  – allows for better career advancement