

Corporate Partner Projects

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Corporate Partner Projects

- Corporate partners may submit a project based on a problem/issue of interest to their organization
- Such a project can be used in a regularly-scheduled class or as a senior project for several academic tracks
- Projects can be 4-6 member team projects or single student projects

Previous Projects

- **Nielsen's Research Methods Center of Excellence**
- Project Title: **Digital Alternative to Paper Diaries for Television Audience Measurement - One Solution on Multiple Devices**
- (Spring, 2015 -- Software Engineering Senior Project, Michael Frick, Travis Henning, Jared Lindauer, Tanner McRae, Project Coordinator Alina Nesen, Brian Trembl - Nielsen)

- **Northrop Grumman Xetron**
- Project Title: **Seismic Activity Map**
- (Fall, 2014 -- CS 30700 Project, Charles Cho, Zhihao Hu, Paul Lohmuller, Aaron Peters, Ben Whorley, Project Coordinator Gisele Izera, Jon Chambers - Northrop Grumman Xetron)
- (Fall, 2014 -- Software Engineering Senior Project, Christopher King, Spencer Smith, Chris Williams, Jeremy Williams - Northrop Grumman Xetron)

- **Booz Allen Hamilton**
- Project Title: **Social Networks: Should You Believe Everything You Read?**
- (Spring, 2013 -- CS 30700 Project, Skyler Beckman, Dylan Fistrovic, Assel Gabdullina, Alex Jahns, Mikhail Kim, Calvin Sauer, Project Coordinator Asmaa Sallam)

Previous Projects

- **Enova**
- Project Title: **Analyzing Big Data in Real Time Using Hadoop**
- (Spring, 2013 -- CS 30700 Project, Clyde Byrd, Eric Flick, Yong Sun Hong, In Hwan Lee, Kurt Kroeger, Raghav Shankar, Project Coordinator Asmaa Sallam)

- **Microsoft Research**
- Project Title: **In-Home Elderly Care using Microsoft Mobile and Cloud Technologies**
- (Fall, 2012 -- Software Engineering Senior Project, Joe Martella, Matt McCormick, John Morman)
- (Spring, 2013 -- Home Automation Software Engineering Senior Project, John Morman, Trevor Grieger, Chris Bauschka, Trent Apple)

- **Raytheon**
- Project Title: **User Experience (UEX) for Augmented Reality (AR) Applications**
- (Spring, 2013 -- CS 30700 Project, Ben Boersma, Zack Golden, Art Malinin, Yidong Xu, Duo Zhao, Chenhua Zhu, Project Coordinator Ashley Mathew)

New Corporate Partner Project Proposal form

Corporate Partner Project Proposal

Name of Organization:

Title of Project:

Research Area (choose all those applicable):

- Bioinformatics & Computational Biology
- Computational Science & Engineering
- Databases & Data Mining
- Distributed Systems
- Graphics & Visualization
- Information Security & Assurance
- Machine Learning & Information Retrieval
- Networking & Operating Systems
- Programming Languages & Compilers
- Software Engineering
- Theory of Computing & Algorithms

Keyword(s):

New Corporate Partner Project Proposal form

Description of Project

A good way to describe your project is a 1-2 page document with the following sections:

1. **Introduction** (Motivation and background that led to this proposal)
2. **Objectives** (What you want the student(s) to do)
3. **Support** (Hardware, software, support of corporate partner and information that the students will receive. Any of these can be returned if desired.)
4. **Results** (What reports, documents, software, etc. you would like to receive during and at the end of the project)
5. **Contact Person Information** (Please provide name, title, email address and phone number. What is his/her background? How often does the contact person wish to conduct sessions with the student(s)?)
6. **Pre-requisites** (special skills or knowledge needed by students):

Be sure to include details that will promote interest among students and allow them to see how their creativity and their skills will be able to be used in the project.

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Additional information/comments:

NOTE: When working with Purdue students on a class project where new technology may be developed, Purdue policy states that students own the code/IP (see full policy at <http://otc-prf.org/student-innovators>).

Signature:

Title:

Date Submitted:

How Projects Proceed

- When students and student teams choose a project, they will need the Corporate Partner contact to provide requirements information immediately
- They will expect interaction with the Corporate Partner contact throughout the semester on a regular basis to be jointly determined by the team and the contact
- Meetings can be held via phone, Skype, in person, etc.

Intellectual Property Issues

- Corporate Partners have the right to copies of any documents students create -- Project Charter, Design, Sprint Planning Documents, and Sprint Retrospectives. In addition, Corporate Partners may be present at Sprint Reviews if they choose.
- However, any code created belongs to the students since Purdue Policy I.A.1 Intellectual Property states that...
- "Interpreted strictly, the intellectual property policy states any invention created with the use of Purdue resources is subject to university ownership. The new interpretation offers students clear ownership rights as long as the resources used were part of a course and were available to all students in the course; that the student was not paid by the university or a third party; and the class or project was not supported by a corporation or government grant or contract."

Intellectual Property Issues

- If the Partner would like a copy of project code at the end of the semester, there are at least the following options:

(1) Students can share the code with no compensation.

(2) Students can assign rights to the code to Purdue's Office of Technology Commercialization (OTC). OTC will negotiate a licensing or sale agreement with the Corporate Partner with proceeds split equally among the students, the Computer Science Department, and the Purdue Research Foundation.

- This seems to be an unlikely problem since the predominant benefit to the Corporate Partner will be ideas generated and contact with the students ... not the code itself.
- Note that students do NOT own the code if it results from a Corporate Partner project in which the Partner has provided funds specifically for the project.