
Typical Projects:

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- Los Alamos, NM
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About Los Alamos:

Los Alamos sits at an elevation of about 7,500 feet above sea level with a temperate mountain climate lending itself to a multitude of outdoor activities including skiing, rock climbing, hiking, and rafting. Our population is roughly 18,000 and booms each summer with the influx of almost 1000 students coming to experience a Los Alamos Lab internship. Just an hour from Santa Fe, a city known for its arts, entertainment, and Southwestern Culture, Los Alamos offers a beautiful setting for exceptional science.

Los Alamos Dynamics Summer School
June 8-August 7, 2015

2014 Lecture Topics:

- Modeling Dynamics Systems
- Signal Processing
- System Identification
- Controls
- Embedded systems
- Aerospace Systems
- Robotics
- Structural Health Monitoring
- Thinking Telescopes
- Machine Learning

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The Los Alamos Dynamics Summer School seeks to focus a select group of upper-level undergraduate students and first year graduate students on the multi-disciplinary field of cyber-physical systems (CPS) as defined by the National Science Foundation, "CPS are engineered systems that are built from and depend upon the synergy of computational and physical components."

Focus areas: The multi-disciplinary nature of research in CPS will be emphasized throughout the summer school through tutorials, guest lectures, tours, and research projects. Students will be assigned to multi-disciplinary teams working with a Los Alamos Lab mentor on a research topic with both analytical and experimental components.

1. Tutorials and Guest Lectures: Attend weekly tutorials and lectures with world class experts on various aspects of CPS (signal processing, system identification, embedded systems, and machine learning). Students will apply tutorial concepts as they design, build, and test cyber-physical systems to address pertinent research questions.

2. Projects: Students are placed into 3 person, multi-disciplinary teams and assigned a research activity to be completed in an intense 9 week time frame. The goal is for the students to document and present their results at the annual IMAC conference.

3. Tours: Students visit unique Los Alamos Lab research facilities including DAHRT, LANCESE, and the Metropolis Center.

How to Apply:

Students should send an email with the following documents to ladss@lanl.gov.

1. 1-page cover letter describing their interest in this summer school and multi-disciplinary cyber-physical dynamic systems research as well as your near term (1-3 year) academic and professional goals.
2. Resume
3. Official transcripts (a copy is fine for application purposes, but the original will be needed prior to the start of the summer school)
4. At least one letter of recommendation

Applications must be received by Dec. 19, 2014.
Acceptance notifications will be sent by January 9, 2014.

Questions?
Please contact ladss@lanl.gov, Chuck Farrar at farrar@lanl.gov, or David Mascarenas dmascarenas@lanl.gov