Systems Teaching Institute
Educational Partner, University Affiliated Research Center, NASA Ames Research Center

Mission Control Technologies

The Mission Control Technologies (MCT) Project at NASA Ames Research Center is developing open source technologies to fundamentally change the way applications for mission control are constructed and deployed. These technologies extend object orientation to the user interface, and empower users to create their own software compositions from an integrated toolkit of shareable software components. We are looking for an intern who wants to be at the intersection of computer science and space exploration. You will be given an opportunity to build, test, and integrate this newly developed software with other mission controls systems and processes. See the MCT web site at: https://sites.google.com/site/openmct/.

Eligibility

To be eligible, students must be enrolled full-time in a Master's or Doctoral program (Exceptional undergraduate students will be considered). Students must demonstrate their potential to contribute to Ames research via enrollment in a highly relevant degree program (Science, Technology, Engineering, or Mathematics) and/or articulation of:

- Acquired skills that might be of special interest
- Prior educational background that shows interdisciplinary knowledge
- Specialized career goals directly related to NASA's mission
- Able to commute to NASA Ames at least twice per week
- Hours: 20-40 hours/week

Skills Required

- Degree (or degree in progress) in Computer Science
- Must have some experience with object-oriented programming (e.g. C++)

Skills Preferred

- Java, Eclipse, human computer action

Duties

- Work with flight controllers and user experience designers to develop open source software for space mission control, by developing components for our client software in Eclipse

Please send a CV/resume and a cover letter by Friday, May 5, 2012 to:
Jennifer Victoria (jennifer.victoria@uarc.ucsc.edu) & Jay Nuez (jay.nuez@uarc.ucsc.edu)

For more information about the University Affiliated Research Center and the STI, please visit:
http://uarc.ucsc.edu/sti/