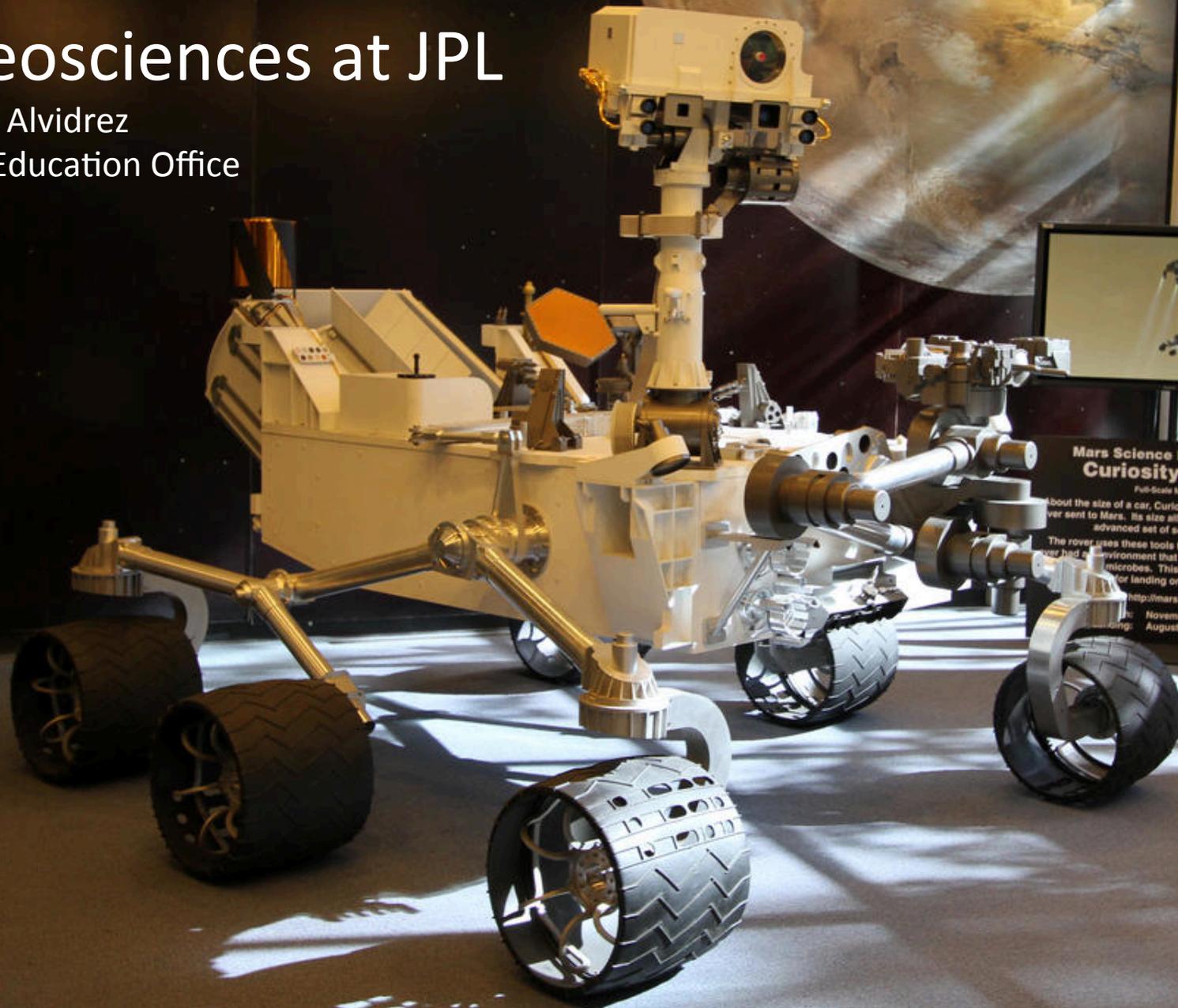


Geosciences at JPL

Rich Alvidrez
JPL Education Office



Mars Science Laboratory, Curiosity Rover

Full-Scale Model

About the size of a car, Curiosity is the largest rover ever sent to Mars. Its size allows it to carry the most advanced set of science tools.

The rover uses these tools to study whether Mars ever had an environment that could support small life microbes. This mission pioneers new techniques for landing on and exploring Mars.

<http://mars.jpl.nasa.gov/msl/>

Launched: November 26, 2011
Landed: August 5, 2012



CURRENT OPPORTUNITIES WITH JPL

Describe the opportunities, if applicable, that your organization offers to current 2YC students:

- The von Kármán Lecture Series
- Tours
- Open House
- Web
- Speaker's Bureau



2-YEAR DEGREES:

Describe the opportunities, if applicable, that your organization offers to individuals with 2-year degrees.

Are the opportunities local, or is travel required?



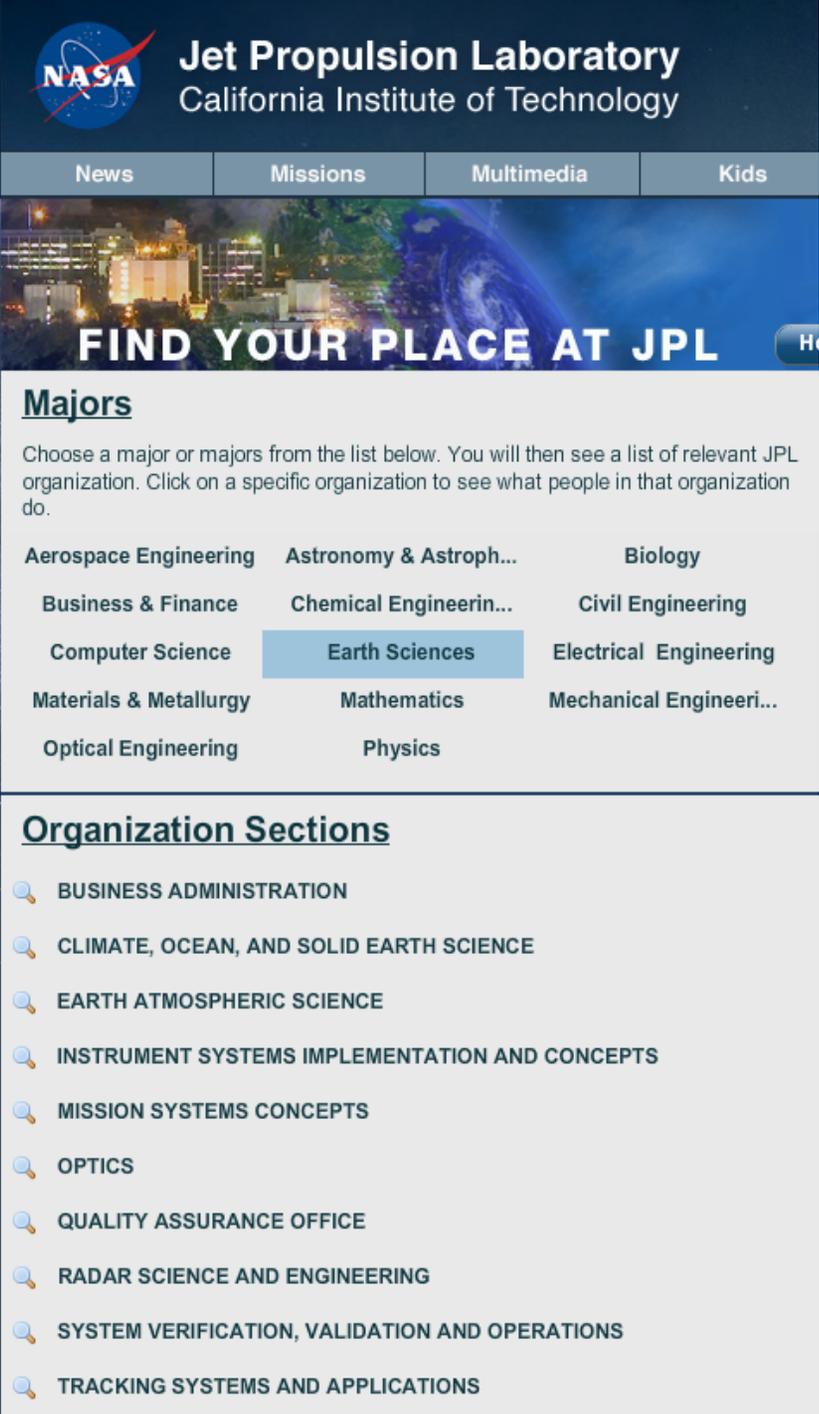
GEOSCIENCES

Which coursework (geoscience and others) is necessary for applicants?
Is there a degree required? If so, which?

Which content knowledge should applicants possess? Which critical soft skills are most important for successful applicants?

JPL Science Division

- Center for Climate Sciences
- Planetary Science
- Climate, Oceans and Solid Earth Sciences
- Astrophysics & Space Sciences
- Earth Atmospheric Science



NASA Jet Propulsion Laboratory
California Institute of Technology

News Missions Multimedia Kids

FIND YOUR PLACE AT JPL

Majors

Choose a major or majors from the list below. You will then see a list of relevant JPL organization. Click on a specific organization to see what people in that organization do.

Aerospace Engineering	Astronomy & Astroph...	Biology
Business & Finance	Chemical Engineerin...	Civil Engineering
Computer Science	Earth Sciences	Electrical Engineering
Materials & Metallurgy	Mathematics	Mechanical Engineeri...
Optical Engineering	Physics	

Organization Sections

- BUSINESS ADMINISTRATION
- CLIMATE, OCEAN, AND SOLID EARTH SCIENCE
- EARTH ATMOSPHERIC SCIENCE
- INSTRUMENT SYSTEMS IMPLEMENTATION AND CONCEPTS
- MISSION SYSTEMS CONCEPTS
- OPTICS
- QUALITY ASSURANCE OFFICE
- RADAR SCIENCE AND ENGINEERING
- SYSTEM VERIFICATION, VALIDATION AND OPERATIONS
- TRACKING SYSTEMS AND APPLICATIONS

Are there internship opportunities for students?

- Student Independent Research Internship (SIRI) – Prof. Boryta
- JPL Undergraduate Scholars (JPLUS) Program – Prof. Tatioian
- JPL Education Website
- NASA Education

<http://www.jpl.nasa.gov/education/>

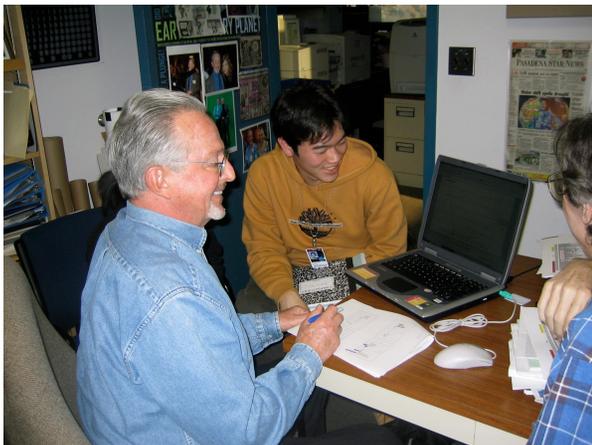
<http://findyourplace.jpl.nasa.gov>



Student Programs, Internships & Fellowships at JPL

showing 18 opportunities

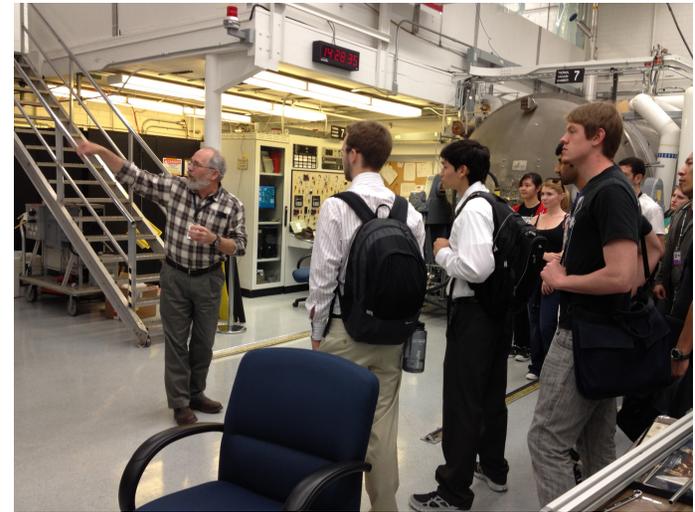
Program	Duration/Period	Education Level	Discipline(s)	Actions
JPL Graduate Fellowship Program (JPLGF) - Offers research/project opportunities for graduate students and flexibility with start and end dates as well as the length of internship duration. ▼ details	10-week minimum (flexible, see requirements for details) / Fall, Spring, Summer, Academic Year, Year-round	Graduate Students	Science, Technology, Engineering, Math	APPLY NOW SUBMIT AO *mentors only
JPL Summer Faculty Research Program (JSFRP) - A fellowship program for full-time faculty teaching at accredited U.S. institutions. JSFRP provides opportunities for science, technology, mathematics and engineering (STEM) faculty to engage in research of mutual interest to the faculty member and a JPL researcher. ▼ details	10 weeks / Summer	Faculty	Science, Technology, Engineering, Math	APPLY NOW SUBMIT AO *mentors only
Year-Round Internship Program at JPL - Offers research opportunities at JPL for students whose colleges and universities allow them to pursue off-campus independent study during terms or semesters of the academic year as well as summer recess. ▼ details	10-week minimum (flexible, see requirements for details) / Fall, Spring, Summer, Academic Year, Year-round	Undergraduate Students, Graduate Students	Science, Technology, Engineering, Math	APPLY NOW SUBMIT AO *mentors only
NASA Undergraduate Student Researchers Program (USR) - Offers undergraduates the opportunity to conduct research in collaboration with technical mentors at 10 NASA field centers. Students should apply through NASA's One Stop Shopping Initiative web portal (click the "Apply Now" button for more). ▼ details	10 - and 15-week spring and fall session / 10-week summer session / Fall, Spring, Summer	Undergraduate Students	Science, Technology, Engineering, Math	APPLY NOW SUBMIT AO *mentors only
Student Independent Research Intern (SIRI) - A one-semester unpaid internship at JPL for	One semester (18	Undergraduate Students,	Science, Technology,	Contact Rich





Jet Propulsion Laboratory Student Independent Research Intern Program

- One-semester unpaid internship, Fall and Spring periods
- Students work 10 – 15 hrs/week as “trainees”
- Students must participate in professional development training
- Students receive academic credit
- Students are from local colleges, selected by Faculty Sponsors



Art Center College of Design
California Institute of Technology
California State Poly, Pomona
California State University, Long Beach
California State University, Los Angeles
California State University, Northridge
Citrus College
East Los Angeles College
El Camino College

Glendale College
Mt. San Antonio College
Occidental College
Pasadena City College
Santa Monica College
University of California, Los Angeles
University of La Verne
University of Southern California

JPL Undergraduate Scholars (JPLUS)

a recognition program and **training** designed to help community college students to be competitive for SURF or JPL internship programs



Describe “advancement” opportunities once a person is hired.
Discuss salary and benefits.



Thank You

