# MECHANICAL ENGINEERING CO-OP

<table>
<thead>
<tr>
<th>Posting ID: IN19804543</th>
<th>Company Website: <a href="https://jpl.jobs/">https://jpl.jobs/</a></th>
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</thead>
<tbody>
<tr>
<td>Company: Jet Propulsion Laboratory</td>
<td>Work Location: Pasadena, CA</td>
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<tr>
<td>Position Type: Full-Time</td>
<td>Salary: DOE</td>
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<tr>
<td>College Major(s): Mechanical Engineering (ME)</td>
<td>College Level(s): Undergraduate-Freshman, Undergraduate-Sophomore, Undergraduate-Junior, Undergraduate-Senior, Graduate Student, PhD. Student</td>
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## OVERVIEW

New ideas are all around us, but only a few will change the world. That’s our focus at JPL. We ask the biggest questions, then search the universe for answers—literally. We build upon ideas that have guided generations, then share our discoveries to inspire generations to come. Your mission—your opportunity—is to seek out the answers that bring us one step closer. If you’re driven to discover, create, and inspire something that lasts a lifetime and beyond, you’re ready for JPL.

Located in Pasadena, California, JPL has a campus-like environment situated on 177 acres in the foothills of the San Gabriel Mountains and offers a work environment unlike any other: we inspire passion, foster innovation, build collaboration, and reward excellence.

## Roles and Responsibilities

We have an exciting opportunity for a student to join our Mechanical Systems Engineering, Fabrication & Test Division as a Co-op intern. The Mechanical Systems Engineering, Fabrication & Test Division engages in research, technology development, and the creation of advanced mechanical, thermal, propulsion, and electronic packaging systems from architectural concept through operations. We lead the mechanical development and implementation of flight hardware and technology for NASA’s robotic space missions as part of the Engineering and Science Directorate. Our expertise spans the full breadth of mechanical disciplines. Members of this team investigate, plan, design and develop mechanical products and systems such as spacecraft, instruments, robots, packaged electronics, controls, engines, and machines, and mechanical, thermal, hydraulic, propulsion, or heat transfer systems for the production, transmission, measurement, and use of energy. They maintain cognizance of and are responsible for all technical and programmatic aspects of the product being developed, reporting the status and performance to the appropriate organizations. Teams apply research to the planning, design, development, and testing of mechanical and/or electromechanical systems, instruments, controls, engines, and/or machines.
Education and Qualifications
Must be available to work full-time for approximately 6 months as a co-op in the Winter and/or Spring of 2020.
Must be currently enrolled in a college or university pursuing a bachelors, masters, or PhD in Mechanical Engineering, Aerospace Engineering, Chemistry, Civil Engineering, Material/Science, Physics, Robotics, Structural Engineering, or related technical discipline. Must be enrolled full time in Spring 2020.
Must have a minimum cumulative 3.0 out of a 4.0 GPA
Knowledge in one or more of the following areas: mechanical design, computer aided design (CAD) and mechanical analysis tool (FEA).
Recently completed coursework providing an understanding and application of standard principles, theories, concepts and techniques in mechanical systems including structures, configuration, mechanisms, structural analysis, and integration and test.
General knowledge of applicable industry and/or academic practices and standards in mechanical design.
Experience with computer aided design and drafting, and spacecraft flight hardware development and test. Working knowledge of mid-level CAD tools (i.e. Solidworks, Unigraphics).
Relevant internship experience
Demonstrated leadership abilities
Ability to solve mechanical design problems, perform trade studies, develop design requirements, perform piece part design, and coordinate fabrication, assembly, and qualification of hardware.
Good verbal and written communications skills with ability to work in a team environment.

How to Apply