



[www.optimaxsi.com](http://www.optimaxsi.com)

6367 Dean Pkwy  
Ontario, NY 14519  
Phone: 585-265-1020  
Fax: 585-265-1033

### Structural Analysis Consultant

<p><b>Founded in 1991</b>, Optimax Systems, Inc. is America's largest prototype optics manufacturer with more than 130 employees situated in an environmentally controlled 40,000 square foot facility just outside Rochester, New York. Through innovative machining technology and a progressive corporate culture, Optimax provides quick, reliable delivery of optical components. Optimax specializes in production lot sizes of 1 to 100 pieces for a wide variety of applications. Our experience includes optics for aerospace, astronomy, biomedical, cinematography, machine vision, metrology, military, pure research, remote sensing and telecom. We are proud to have fabricated the camera lenses for the Mars Rovers. Optimax grinds and polishes most optical materials, including glass, crystal, ceramic and stainless steel. On-time delivery is critical at Optimax. We deliver <b>Prototype Optics in 1 week</b> (our motto), and we offer a unique money back guarantee for expedited deliveries.</p>	<p><b>Job ID</b>            <b>200902</b></p> <p><b>Job Title:</b>        <b>Consultant</b></p> <p><b>Number of</b> <b>Openings:</b>        <b>1</b></p> <p><b>Date Posted</b>     <b>2009-11-30</b></p> <p>Reports To:        Department Group                           Leader, R&amp;D</p> <p>Location:            Factory floor</p>
<p>Optimax is currently developing an improved in-process holding solution for optics. A consultant is being sought who specializes in structural analysis techniques, including finite element analysis. This project start is immediate and is expected to be completed in an eight week timeframe assuming a part-time commitment by the consultant. We are also looking for a full-time Mechanical Engineer with similar capabilities for a job start in 1<sup>st</sup> quarter 2010.</p>	
<p>The candidate is expected to work with Optimax personnel and be the technical resource to:</p>	
<ul style="list-style-type: none"><li>• Provide detailed analysis of various proposed models of holding fixtures for thin walled optics including stress analysis, in steady state and under load, and optimization of heating/cooling rates for individual elements, as well as elements mounted in the holding fixture.</li><li>• Given coefficient of friction and applied loads, predict failure of holding methods due to warpage, slippage or breakage of the optic.</li><li>• Review project requirements and assist in design of a holding method which will meet these requirements with both a mechanically robust and user friendly design.</li></ul>	
<p><b>The ideal candidate will have the following qualifications:</b></p>	
<ul style="list-style-type: none"><li>• Have a B.S. or M.S. in Mechanical Engineering or equivalent</li><li>• Senior Level Mechanical Engineer w/ min. 5 yrs experience in structural analysis</li><li>• Fluent in FEA software (e.g. Cosmos, ANSYS, etc.)</li><li>• Experience with opto-mechanical modeling and drawings</li><li>• Optics manufacturing experience desirable</li></ul>	
<p><i>Optimax Systems, Inc. must comply with the International Traffic in Arms Regulations (ITAR) issued by the United States Department of State, Department of Defense Trade Controls. Because of the ITAR, Optimax must limit employment opportunities to US citizens or lawful permanent residents of the United States.</i></p>	
<p><b>If you are a qualified candidate for this position, please forward a resume to <a href="mailto:jobs@optimaxsi.com">jobs@optimaxsi.com</a>, or to Optimax Systems Inc., 6367 Dean Parkway, Ontario, New York 14519 attention Human Resources.</b></p>	