



## Job Profile Information

<b>Organization</b>	GoldSim Technology Group
<b>Background of organization</b>	<p>GoldSim Technology Group (<a href="http://www.goldsim.com">www.goldsim.com</a>) began developing GoldSim, its probabilistic simulation platform, in 1990. GoldSim differs from traditional system dynamics approaches in that 1) it puts much greater emphasis on probabilistic simulation techniques to support representation of uncertain and/or stochastic systems; and 2) it provides a wide variety of specialized model objects (beyond stocks, flows and converters) in order to make models less abstract (and hence more transparent) and help represent processes and events that cannot easily be represented using a traditional system dynamics approach. This includes specialized modules to support Risk and Reliability Analysis, Financial Modeling, and Mass Transport Modeling, as well as features to simultaneously represent continuous and discrete dynamics.</p> <p>These differences are due to the fact that GoldSim has most commonly been used for engineering and scientific applications where quantitative probabilistic predictions of future performance have been required (e.g., by regulators and other stakeholders) in order to inform and defend policy and design designs.</p> <p>Examples of GoldSim applications include the following:</p> <ul style="list-style-type: none"> <li>- The U.S. Department of Energy uses GoldSim to simulate the long-term performance of the nation's first proposed radioactive waste repository at Yucca Mountain, Nevada. The model produces probabilistic predictions of the environmental impact of the facility.</li> <li>- Los Alamos National Laboratory and Lawrence Berkeley National Laboratory use GoldSim to simulate geologic sequestration of CO<sub>2</sub>. The models evaluate both the financial and engineering aspects of large scale carbon sequestration systems.</li> <li>- GoldSim is used by many of the leading engineering consulting firms in the world for water resource and hydrological modeling applications. Applications include municipal water supply planning and optimization, simulation of the transport and fate of contaminants in the environment, and water management at constructed facilities (such as mines).</li> </ul>
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<b>Contact phone, fax and/or email</b>	<a href="mailto:rkossik@goldsim.com">rkossik@goldsim.com</a> 1-425-295-6985
<b>Position title</b>	Simulation Analyst
<b>Job location</b>	Issaquah (Seattle), Washington USA

<b>Position description</b>	<p>As a member of a small, but growing company, you will be expected to be versatile and participate in a wide variety of activities, including software design, user training and technical support, consulting, marketing and technical sales. Specific responsibilities will include:</p> <ul style="list-style-type: none"> <li>- Providing technical support and consulting services.</li> <li>- Providing on-site and web-based training.</li> <li>- Providing technical sales support (including web-based software demos) to potential customers.</li> <li>- Working with senior staff to identify and exploit new markets for GoldSim.</li> <li>- Assisting with testing new versions of the software.</li> <li>- Actively participating in software design discussions.</li> </ul>
<b>Required skills</b>	<p>We are looking to fill both a junior and a senior position. Both positions require the following:</p> <ul style="list-style-type: none"> <li>- A Master's degree in science, engineering, applied mathematics, or a closely related field.</li> <li>- Strong written and oral communication skills.</li> <li>- A history of pro-active and detail-oriented performance.</li> <li>- Ability to take on varied tasks in unfamiliar areas and provide results in a timely manner.</li> <li>- Legal working status in the United States.</li> </ul> <p>The senior position requires:</p> <ul style="list-style-type: none"> <li>- At least 5 years of experience in simulation modeling subsequent to graduation.</li> </ul> <p>The junior position requires:</p> <ul style="list-style-type: none"> <li>- System dynamics and/or other simulation modeling experience as part of your graduate-level training.</li> </ul>
<b>Desired Skills</b>	<ul style="list-style-type: none"> <li>- Knowledge of Monte Carlo methods and statistical data analysis.</li> <li>- Specific experience in systems engineering, risk analysis, reliability engineering or water resources.</li> </ul>
<b>Salary Range</b>	Dependent on position and qualifications
<b>URL to host organization</b>	<a href="http://www.goldsim.com">www.goldsim.com</a>