



Job Profile Information

Organization	The Millennium Institute
Background of organization	<p>MI is an international nonprofit whose vision and mission are as follows:</p> <p>The Millennium Institute vision is of a sustainable and more peaceful and equitable future for Earth. We believe that such a future is possible, given humans develop and apply advanced analytical tools to highlight unintended and counterintuitive consequences of present development strategies and evaluate, with a human value system, the merits of alternative strategies and supporting policies.</p> <p>MI's mission, therefore, is (1) to develop and provide advanced analytical tools for national and global sustainable development planning, and (2) to formulate values-related questions and analyses on the benefits of alternative development strategies.</p>
Address	2200 Wilson Boulevard, Suite 650 Arlington, VA 22201-3357, USA
Contact person	Maureen L. Johnson, Comptroller
Contact phone, fax and/or email	mj@millennium-institute.org
Position title	Modeler or Senior Modeler
Job location	The position is based in Arlington, Virginia, but MI is seeking international status any move its Headquarters to an overseas location within the next 12 to 18 months.
Position description	The Modeler reports to the Director of Modeling and is responsible for completing dynamic modeling and research projects.

	<p>DUTIES AND RESPONSIBILITIES</p> <p>Program Service (about 95 % of time)</p> <p>Simulation Tools and Consulting</p> <ul style="list-style-type: none"> • Independently fulfills specific modeling projects as assigned, which include national development models, sector-specific models, and regional gaming models, all built with Vensim DSS. • Maintains documentation for models customized and applied • Travels to project sites and carry out short-term assignments as needed. • Works to improve the quality and efficiency of Institute's models • Reads regularly in areas related to the Institute's modeling program <p>Public Education and Advocacy</p> <ul style="list-style-type: none"> • Prepares and presents demonstrations of the Institute's models • Contributes to the preparation of communication and education materials <p>Management (about 5 % of time)</p> <ul style="list-style-type: none"> • Participates in staff meetings and annual reviews of MI's plans and progress
<p>Required skills</p>	<p>Master's degree in System Dynamics</p> <ul style="list-style-type: none"> • Bachelor's degree in science, engineering, mathematics, or economics • Four to six years of experience, preferably in public policy modeling • Excellent skills in Windows, Excel, Access, and

	<p>Vensim or other dynamic modeling software. Good knowledge of Linux and Mac OS X and related software (File Maker, etc) are an advantage</p> <ul style="list-style-type: none"> • At least one course in calculus or differential equations • At least one course in economics • Strong internet research skills • Strong “people skills” – comfortable and experienced in leadership, teaching, and facilitation roles • Ability to operate effectively in international and intercultural situations • Self-motivated, organized, responsible, and results-oriented. • Flexible, focused, team player initiative and ability to learn quickly • Fluency in English
<p>Desired Skills</p>	<p>The ideal candidate will also have:</p> <ul style="list-style-type: none"> • Ph.D. in System Dynamics or science (or equivalent experience). • Strong background in modeling of environmental and natural resource issues, social issues (education, poverty, and health), and experience with economic growth models • Experience in data collection and management • Strong interest and experience in public policy issues and international development • Experience creating gaming models and associated processes/instructions • Programming experience with C++, Java, Basic, Pascal, Fortran, and/or Prolog

	<ul style="list-style-type: none">• Fluency in a second language (Spanish, Portuguese, and French are the most frequently needed languages)• Experience living or working in developing countries
Salary Range	Competitive salary depending upon experience and credentials, plus benefits.
URL to host organization	www.millennium-institute.org