

## Job Detail

Staff Level

Position Title	Robot mechanism design/structural design/analysis experts and engineers aiming to become experts
Recruiter Company	iHOLON Co.,Ltd
Company Name	Company name is private
Activated / Updated	2024-05-13 / 2024-05-13
Job Type	Manufacturing (Automobile/Plant Engineering/Precision Equipment) - Control - Programmer Electronics (Appliance/Semiconductor) - Control - Software Architect
Industry	Machinery Manufacturer
Location	Asia Japan Kanagawa
Job Description	<ul style="list-style-type: none"> <li>• You will be responsible for mechanical/structural design of arms/walking robots/hands, as well as analysis, assembly, and actual machine evaluation.</li> <li>• We will develop a robot that has a high degree of freedom and is made up of simple, lightweight, highly rigid, and high-strength elements.</li> <li>• Please use commercially available materials or use a 3D printer to make temporary prototypes of parts, and use trial and error to improve mechanism plans and ease of assembly.</li> <li>• In order to achieve dexterous hand movements when using tools and supply body movements, please proceed with the design by referring to the movements of people and animals, based on a method called biomechanics.</li> <li>• We plan to use Solidworks as the CAD tool and Matlab/Simulink as the mechanism analysis tool. For those who have no experience using the tool, we will provide a detailed lecture. Or if you have any recommended tools please let me know.</li> </ul>
Company Info	<p>This is an environment where you can take on the challenge of developing humanoid robots ahead of future trends. Here you will find exciting experiences and opportunities for growth that can only be found at a start-up company. We are looking for friends who will be passionate about it, expand unknown possibilities, and create the future together!</p>
Qualifications	<p>[MUST]</p> <ul style="list-style-type: none"> <li>- Be willing to learn how to use various tools.</li> <li>• Be able to quickly perform material selection, inertia calculation/strength calculation, and structural analysis.</li> <li>• The ability to intuitively predict "deflection" and "prying" that are difficult to analyze, and design elements with a simple structure using a small number of parts.</li> <li>- Must be dexterous with hands. Must be able to continue prototyping and assembling mechanical devices patiently and without getting tired.</li> <li>-Be confident in the appearance of your own design.</li> </ul> <p>[Welcome (WANT)]</p> <ul style="list-style-type: none"> <li>• Preference will be given to those who have experience and knowledge in selecting and designing specifications for actuators such as motors and reducers.</li> <li>• It is desirable to have a strong interest in biomechanics.</li> </ul>
Japanese Level	Business Level(JLPT Level 2 or N2)
Salary	Depends on experience