

2011 Internship Items to be assigned

\* The internship program schedules and contents are subject to change, or may even be cancelled as a whole due to some emergency situation, such as rolling power blackouts caused by the recent huge earthquake in Japan.

No	Theme	Training venue	Dept. in charge	Prerequisite conditions			Internship period	実習期間		Program Overview	Other information you should know
				School	Major	Academic year		Start date	End date		
1	Investigation on working conditions under current working market	Tokyo	Human Resource Dpt	Not specified	Not specific field	All levels	10days	Negotiable	Negotiable	Investigate and study issues on working conditions for non-Japanese workers when they are employed in Japan, or issues on working conditions of highly technical engineers while considering the current labor market in Japan. An intern is expected to make a presentation about their study results.	In principle, an intern is required to set up his own study method and compile a document.
2	Research on supercomputer job rescheduling	Chofu	Numerical Analysis Group	Graduate	Not specific field	All levels	One month or less	Early July	End of Sept.	Research on supercomputer job rescheduling using combinational optimization.	Programming experience by C language is required.
3	Compose an arithmetic module on the FPGA computer	Chofu	Numerical Analysis Group	Graduate	Not specific field	All levels	One month or less	Early July	End of Sept.	Compose / arrange and dispose an arithmetic module on the FPGA computer "FLOPS2D," which is under development by JAXA.	Programming experience by HDL is required.
4	Aerodynamic, acoustic and vibroacoustic simulation	Chofu	Numerical Analysis Group	Undergraduate/ Graduate	Aerospace/Mechanical	All levels	Two weeks	Early July	End of Sept.	Practice and learn through numerical simulations of design problems for aviation and space vehicles including aerodynamic, acoustic and vibrant problems.	Programming experience by FORTRAN and/or C language is preferable.
5	Flow measurement and control using functional chemicals	Chofu	Fluid Dynamics Group	Undergraduate/ Graduate	Not specific field	Shophomore or above	preference in longer period	July	September	Individuals who join this program will engage the interdisciplinary research on fluid dynamics and chemistry. Topics include the developments in chemical coatings for anti- and de-icing aircrafts, optical sensors for fluid dynamic measurements, and instrumentation for characterising these coatings and sensors.	We are seeking individuals who are interested in the interdisciplinary research on fluid dynamics and chemistry. Special knowledge in these areas is not required.
6	Trend investigation in foreign countries concerning aviation technology	Chofu	Aviation Program Group	Not specified	Not specific field	All levels	Two weeks to one month	July	September	Conduct a trend investigation in foreign countries concerning aviation technology, then compose the investigation result and study ways to utilize the result.	Communicative Japanese proficiency (conversational level) is preferable.
7	Remote control system of space robot	Tsukuba	Innovative Technology Research Center	Graduate	Mechanical engineering	Master	Over 60 days	July 1	End of Sept.	Develop a remote control system of a robot in the environment where time lag exists.	
8	Study on circuit and antenna hardware to transmit information and energy via microwave	Sagamihara	Dpt. of Space Information and Energy	Undergraduate/ Graduate	Science and engineering	All levels	Over a week	Early July	End of Sept.	Design, make, and evaluate a circuit and antenna hardware to transmit information and energy via microwave using facilities at the ISAS.	

**Trainig venue**

Chofu Aerospace Center: 7-44-1 Higashimachi Jindajji Chofu Tokyc [http://www.jaxa.jp/about/centers/cac/index\\_e.html](http://www.jaxa.jp/about/centers/cac/index_e.html)  
 Tsukuba Space Center: 2-1-1 Sengen Tsukuba Ibaraki [http://www.jaxa.jp/about/centers/tksc/index\\_e.html](http://www.jaxa.jp/about/centers/tksc/index_e.html)  
 Sagamihara Campus: 3-1-1 Yoshinodai Sagamihara Kanagawa [http://www.jaxa.jp/about/centers/sagamihara/index\\_e.html](http://www.jaxa.jp/about/centers/sagamihara/index_e.html)  
 Tokyo Office: 1-6-5 Marunouchi Chiyoda-ku Tokyo [http://www.jaxa.jp/about/centers/tokyo/index\\_e.html](http://www.jaxa.jp/about/centers/tokyo/index_e.html)

