

Toshiba Global Internship 2018

Introduction	<p>Toshiba group is a diversified electric/electronic manufacturer and provides a wide range of products and services on a global basis in four business domains: Energy, Social Infrastructure, Electronic Devices and Digital Solutions.</p> <p>Interns in Toshiba group work on hands-on projects that contribute to a better society. You'll have the opportunity to gain valuable experience from applying what you have learned in university to real work, and also experience life in Japan.</p> <p>In addition to an opportunity to understand Toshiba's work culture, this could also be your first step to considering the prospect of a career with Toshiba group in Japan.</p> <p>For successful interns, there is the possibility of full-time job offer.</p>
Internship Period	<p>The internship is provided during below 2 periods. Select all your available time on the application form and a match with the internship departments will be conducted internally.</p> <ul style="list-style-type: none"> ● December 10, 2018 – January 25, 2019 (7 weeks) ● January 7, 2019 – January 25, 2019 (3 weeks)
Target Candidates	<p>Students currently enrolled in university who will graduate before October 2019 or graduates with less than 3-year work experience.</p>
Qualifications	<ol style="list-style-type: none"> 1. Strong interest in Toshiba group. 2. Effective English communication skills. 3. Further qualifications required depending on the position. See Position list.
Location	<p>Interns will be assigned to a Toshiba group office or factory in Japan.</p>
What We Offer	<ol style="list-style-type: none"> 1. Round-trip international flight tickets between your country and Japan. 2. Visa acquisition (if necessary). 3. Accident insurance in Japan. 4. Daily meal allowance: JPY2,500/ day. 5. Transportation allowance in Japan related to internship. 6. Accommodation in a Toshiba dormitory. 7. Toshiba Global Intern Lifestyle Guide 8. Personal Mentorship Program
How to Apply	<p>Apply online at TOSHIBA Online Application.</p> <p>Application deadline: September 10, 2018 at 7am (JST)</p> <p>Prepare the following documents and upload them to the online application system:</p> <ol style="list-style-type: none"> 1. Profile photo. 2. Resume (PDF) 3. Academic record for all semesters (transcript or mark sheet) (PDF) <p>*All applications will be reviewed after the deadline. Successful candidates will be invited to interviews. Selection will be completed by the end of November 2018.</p>

For further information, visit our website at <http://www.toshiba.co.jp/saiyou/international/internship/>

Position List

Engineer Intern Positions

Click Position No. to see details of the position.

Energy Business Domain

Position No.	Type of Engineer	Project
TESS001	Plant System Engineer	Engineering Training on Steam Turbine, Generator and Control Equipment for Thermal Power Plant
TESS002	Plant System Engineer	Information & Control Engineering for Power Generation
TESS003	Plant System Engineer	Equipment of Thermal Power Combined Cycle Plant
TESS004	Design & Development Engineer	Control Systems for Thermal and Hydro Power Generation

Social Infrastructure Business Domain

Position No.	Type of Engineer	Project
TISS001	Design & Development Engineer	Industrial Sensors
TISS002	Design & Development Engineer	Railway Systems Equipment

Electronic Devices Business Domain

Position No.	Type of Engineer	Project
TDSC001	Design & Development Engineer	Design and Verification of Electrical Circuits for Analog IC
TDSC003	Design & Development Engineer	System LSI Devices Evaluation
TDSC004	R&D Engineer	Research and Development of Image Recognition Socs for Automotive Applications
TDSC005	Application Engineer	Application Test/ Products Evaluation of Discrete Semiconductors for Automotive Application
TDSC006	Application Engineer	Application Test/ Products Evaluation of Power Devices
TDSC007	Application Engineer	Product Evaluation and Marketing Training
TDSC008	Application Engineer	Application Test/ Products Evaluation of Linear ICs for Mobile Equipment

TDSC009	Application Engineer	Application Engineering in Customized LSI and ASSP
TDSC011	Quality Control Engineer	Quality Control of HDD Product

R&D Intern Positions

Click Position No. to see details of the position.

Corporate Research & Development Center

Position No.	Laboratory	Research Field
RDC001	Computer Architecture & Security Systems Laboratory	High Performance FPGA Based Accelerator
RDC004	Media AI Laboratory	Computer Vision and Image/ Speech Recognition
RDC005	Electron Devices Laboratory	Research & Development of Semiconductor Devices in Industry
RDC006	Frontier Research Laboratory	Neuromorphic Hardware
RDC007	Frontier Research Laboratory	Development of Next Generation FPGA Prototype

Corporate Software Engineering & Technology Center

Position No.	Laboratory	Research Field
SWC001	Open Source Technology Department	System Software and Middleware Applied on Toshiba Products Using Linux or Web Application Frameworks/ Libraries

Engineer Intern Positions

Energy Business Domain

Creating Sustainable Societies

Power systems are indispensable for contemporary lifestyles, and demand for expected to remain vigorous worldwide. Leveraging expertise cultivated since the company's foundation, Toshiba Group is contributing to the creation of infrastructure that enriches quality of life for people throughout the world. In order to ensure stable supply of electricity, we offer hydro, solar, geothermal and wind power generation facilities in the renewables space, as well as thermal and nuclear power generation systems.



We are also a leading supplier of power transmission and distribution systems that deliver electricity to homes, commercial facilities and other users; rechargeable batteries for the efficient storage of energy; hydrogen-based autonomous energy supply systems utilizing renewable energy and hydrogen; and smart grids, the next-generation energy distribution systems that combine power infrastructure with communications infrastructure.

Related link: [Toshiba Energy Systems & Solutions Corporation](#)

Internship in Energy Systems & Solutions Company

Position No.	TESS001
Company	Toshiba Energy Systems & Solutions Corporation (Group Company)
Products	Steam Turbine, Generator and Control Equipment for Thermal Power Plant
Location	Kawasaki, Kanagawa
Type of Engineer	Plant System Engineer
Internship Project	Engineering Training on Steam Turbine, Generator and Control Equipment for Thermal Power Plant
	<p>Interns will work with highly skilled engineers in the real business environment through the on-going Japan and overseas projects to experience the work and problem-solving process as a plant system engineer.</p> <p>You will gain knowledge and experience in the following:</p> <ul style="list-style-type: none"> • Understanding of Toshiba's sales process and technical solutions. • Knowledge about equipment of thermal power plant. • Using techniques and tools to better understand what customers are working on. • Problem solving techniques and team work.
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in mechanical engineering or electrical engineering • Excellent and effective English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of material mechanics, thermodynamics and fluid mechanics

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Position No.	TESS002
Company	Toshiba Energy Systems & Solutions Corporation (Group Company)
Products	Thermal Power Generation Equipment
Location	Yokohama, Kanagawa
Type of Engineer	Plant System Engineer
Internship Project	Information & Control Engineering for Power Generation
	<p>Interns will participate in control and instrumentation design and implementation engineering such as control logic implementation, database development, simulation development. Interns will have opportunities to visit Toshiba's power plant manufacturing facilities.</p> <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Overview of Thermal power plants • Information & control engineering for power generation
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree • Knowledge of control engineering, electrical engineering, mechanical engineering and information technology • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Excellent presentation and negotiation skills

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Position No.	TESS003
Company	Toshiba Energy Systems & Solutions Corporation (Group Company)
Products	Equipment of Thermal Power Combined Cycle Plant
Location	Yokohama, Kanagawa
Type of Engineer	Plant System Engineer
Internship Project	Equipment of Thermal Power Combined Cycle Plant
	<p>Interns will receive heat & mass balance training through steam turbines and generators projects.</p> <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Knowledge of thermal power combined cycle plant equipment. • Overview of real business process • Practical experience in applying knowledge of thermodynamics and fluid dynamics to real engineering situations and business • Experience of using HB software
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in Mechanical Engineering • Excellent English communication skills • Microsoft Office skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of thermal dynamics, fluid dynamics, material engineering and mechanics

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Position No.	TESS004
Company	Toshiba Energy Systems & Solutions Corporation (Group Company)
Products	Control Systems for Thermal and Hydro Power Generation
Location	Fuchu, Tokyo
Type of Engineer	Design & Development Engineer
Internship Project	Control Systems for Thermal and Hydro Power Generation
	<p>Interns will work on projects related to design, implementation and test of control & information system for Thermal and Hydro Power Plant</p> <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Understanding of Toshiba's technical process and solutions. • Problem solving techniques and team work. • Design and test process through tasks related to control software design or database implementation.
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree • Knowledge of electrical engineering or measurement & control engineering • Presentation and negotiation skills • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Basic knowledge of information technology and mechanical engineering • Basic knowledge of simulation tools such as Matlab, Simulink, etc. • Project management skills

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Social Infrastructure Business Domain

To Realize a Sustainable Society with Safety, Security and Reliability

Toshiba Group aims to realize a sustainable society that is safe, secure and reliable through our solutions for Public Infrastructure, Building & Facilities and Transportation and Industrial Systems all over the world.

For public infrastructure, we offer systems and solutions for water supply and sewerage, highways, disaster prevention, broadcasting, telecommunications, security and automation. For buildings and facilities, we offer energy-saving, eco-friendly solutions for elevators & escalators, air-conditioners, and lighting offering higher comfort. For Transportation and Industrial Systems, we offer high value-added systems and solutions for railways, motors & inverters, rechargeable batteries and automotive devices. Also, we offer retail & printing solutions to support businesses for stores, logistics and offices.

Related link: [Toshiba Infrastructure Systems & Solutions Corporation](#)

● Public Infrastructure



Water Treatment Systems



Broadcasting Systems



Security and Automation Systems



Air Traffic Control Systems

● Transportation and Industrial Systems



Railway Systems



Industrial Systems



Lithium-ion Rechargeable Battery

Internships in Toshiba Infrastructure Systems & Solutions Corporation

Position No.	TISS001
Company	Toshiba Infrastructure Systems & Solutions Corporation (Group Company)
Products	Industrial Sensors (Electromagnetic Flowmeter, Density (Consistency) Meter, Pressure Transmitter and Water Treatment Analyzer)
Location	Fuchu, Tokyo
Type of Engineer	Design & Development Engineer
Internship Project	Industrial Sensors
	<p>Interns will work on projects related to:</p> <ul style="list-style-type: none"> • Market research in Asia for Density (Consistency) meter • Developing evaluation test for Microwave Density (Consistency) meter <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Understanding the trend of technologies and essential specification of industrial sensors in Asia. • Understanding of Toshiba's product development process • Practical experience on evaluation test and improvement for the prototype with professional design & development engineer
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in mechanical engineering • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of electrical & electronics engineering will be a plus • Good presentation and interpersonal communication skills

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Position No.	TISS002
Company	Toshiba Infrastructure Systems & Solutions Corporation (Group Company)
Products	Railway Systems Equipment
Location	Fuchu, Tokyo
Type of Engineer	Design & Development Engineer
Internship Project	Railway Systems Equipment
	<p>Interns with mechanical engineering or electrical engineering will participate in an ongoing project to understand the work flow as a design and development engineer in Toshiba's railway system business.</p> <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Understanding of Toshiba's products, technologies and the solutions in railway systems. • Overview of Toshiba's design process. • Practical experience of using CAD and CAE to develop and design products. • Cross-culture communication skills and team works.

<p>Basic Qualifications</p>	<p><u>Mechanical engineering background</u></p> <ul style="list-style-type: none"> • Bachelor's or higher degree in mechanical engineering • Basic mechanical / electrical designing skills • Knowledge of drafting • Excellent English communication skills <p><u>Electrical engineering background</u></p> <ul style="list-style-type: none"> • Bachelor's or higher degree in electrical engineering • Basic electrical designing skills • Knowledge of electric technology (include circuit technology), system control technology, communication network technology, safety logic technology, and rolling stock technology • Experience in software design • Excellent English communication skills
<p>Preferred Qualifications</p>	<p><u>Mechanical engineering background</u></p> <ul style="list-style-type: none"> • Knowledge of CAD and CAE software (e.g., NX, Pro/ENGINEER, ANSYS DesignSpace, etc.) • Power Electronics Knowledge <p><u>Electrical engineering background</u></p> <ul style="list-style-type: none"> • Experience in circuit design is a plus • Knowledge of numerical analysis and circuit simulator (e.g., SPICE, PSIM, MATLAB, etc.) • Power Electronics Knowledge

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Electronic Devices Business Domain

Electronic devices that are shaping our future

In the era of big data, you either sink or swim in the sea of information. In fact, state-of-the-art electronics are contributing more than ever, from cutting energy consumption to the control and operation of automobiles. Toshiba Group promotes advances in electronic devices that help everyone to live more comfortably and safely.

In the discrete semiconductor business, we focus on the power devices that control equipment power consumption. Our system LSI business offers ICs for IoT, automotive, communications and power supply applications. In the HDD business, we lead the way in large capacity enterprise HDDs for data centers and servers.

Related link: [Toshiba Electronic Devices & Storage Corporation](#)



Internships in Toshiba Electronic Devices & Storage Corporation

Position No.	TDSC001
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	Consumer, Industrial, Automotive MCU and Wireless IC
Location	Kawasaki, Kanagawa
Type of Engineer	Design & Development Engineer
Internship Project	Design and Verification of Electrical Circuits for Analog IC
	You will gain experience in the following: <ul style="list-style-type: none"> • Understanding the design flow of analog circuits in MCU product. • Verification (Simulation) of Analog IP circuit design.
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in electrical engineering, electronic engineering, electrical & electronic engineering, chemical engineering, physics applied physics, mathematics, or related field • Experience of circuit design • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of MOS device physics • Experience of CAD tools for IC design, such as SPICE and layout tools

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Position No.	TDSC003
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	System LSI
Location	Kawasaki, Kanagawa
Type of Engineer	Design and Development Engineer
Internship Project	System LSI Devices Evaluation
	You will gain experience of the following: <ul style="list-style-type: none"> • Understanding the evaluation technique of the system LSI devices • Hands on experience of the evaluation procedure
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree • Knowledge of operating principles of semiconductor devices
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of process technology in wafer manufacture • Knowledge of solid physics • Knowledge of statistics and probability

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Position No.	TDSC004
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	Image Recognition Processor for Automotive Products
Location	Kawasaki, Kanagawa
Type of Engineer	R&D Engineer
Internship Project	Research and Development of Image Recognition Socs for Automotive Applications
	You will gain experience in the following: <ul style="list-style-type: none"> • Understanding the hardware architecture for image recognition. • Hardware implementation and verification of image recognition algorithm for automotive applications.
Basic Qualifications	<ul style="list-style-type: none"> • Master's or higher degree in computer science, electrical engineering or related computer field • 1 - 2 years of academic experience in hardware development and capable of hardware description languages • Knowledge of computer architecture • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of computer vision, image recognition, algorithms or digital signal processing • Experience in research on image recognition, image signal processing, and computer vision is a plus • Experience in hardware development on embedded system is a plus

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Position No.	TDSC005
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	Discrete Semiconductors for Automotive Application
Location	Kawasaki, Kanagawa
Type of Engineer	Application Engineer
Internship Project	Application Test/ Products Evaluation of Discrete Semiconductors for Automotive Application
	You will gain experience in the following: <ul style="list-style-type: none"> • Methods of Power device evaluation • Practical experience of using measurement equipment and machines for device evaluation. • Writing technique for technical reports.
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in electrical & electronics engineering or semiconductor engineering • Knowledge of power device and application circuit • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Experience of market research • Native-level Mandarin is a plus

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Position No.	TDSC006
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	Discrete Semiconductors for Power Management Application
Location	Kawasaki, Kanagawa
Type of Engineer	Application Engineer
Internship Project	Application Test/ Products Evaluation of Power Devices
	You will gain experience in the following: <ul style="list-style-type: none"> • Method of Power device evaluation, • Practical experience of using measurement equipment and machines for device evaluation. • Writing technique for technical reports.
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in electrical & electronics engineering or semiconductor engineering • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of power device and application circuit

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Position No.	TDSC007
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	Optoelectronic Devices (Photo Couplers And Photo Relays)
Location	Buzen, Fukuoka or Kawasaki, Kanagawa
Type of Engineer	Application Engineer
Internship Project	Product Evaluation and Marketing Training
	You will gain experience in the following: <ul style="list-style-type: none"> • Understanding of Toshiba's sales process and technical solutions. • Using techniques and tools to better understand what customers are working on. • Problem solving techniques and team work. • Design and test of application circuits, reference designs or prototypes and related Discrete semiconductor.
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in electrical & electronics engineering or related field • Excellent English communication skills • Native-level Mandarin is a must
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge and experience of six-sigma methodologies • Knowledge of optical optoelectronics • Business communication skills • Knowledge of power electronics applications, such as industrial inverters and wind inverters • Knowledge of circuit design technology • Semiconductor process engineering

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Position No.	TDSC008
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	Discrete Semiconductor for Mobile and Consumer Application
Location	Kawasaki, Kanagawa
Type of Engineer	Application Engineer
Internship Project	Application Test/ Products Evaluation of Linear ICs for Mobile Equipment
	<p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Evaluation Skill of Linear ICs for mobile application • Practical experience of using measurement equipment and machines for Linear ICs evaluation. • Writing technique for technical reports.
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in electrical & electronics engineering or semiconductor engineering • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of operation principal of transistor, diode and application circuit. • Native-level Mandarin is a plus

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Position No.	TDSC009
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	Customized LSI and ASSP
Location	Kawasaki, Kanagawa
Type of Engineer	Application Engineer
Internship Project	Application Engineering in Customized LSI and ASSP
	<p>Interns will be involved in</p> <ol style="list-style-type: none"> 1) project of optimizing RFI/ RFQ and proposal evaluation 2) Telephone/ video meeting with overseas counterparty to gain understanding of Toshiba's technical strategy and business development process <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Understanding of Toshiba's technical process and solutions. • Using techniques and tools to better understand what customers are working on. • Problem solving techniques and team work.
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in electrical engineering or semiconductor related field • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of physics or mathematics • Native-level Mandarin is a plus

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Position No.	TDSC011
Company	Toshiba Electronic Devices & Storage Corporation (Group Company)
Products	HDD (Hard Disk Drive)
Location	Yokohama, Kanagawa
Type of Engineer	Quality Control Engineer
Internship Project	Quality Control of HDD Product
	<p>Interns will be involved in quality control projects including evaluation, failure analysis, and customer support.</p> <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Quality control technical skills such as production & evaluation process, and failure analysis • Understanding of Toshiba's quality support procedure for customers
Basic Qualifications	<ul style="list-style-type: none"> • Bachelor's or higher degree in electrical engineering, electronic engineering, computer engineering, computer science, or related field. • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of physics and statistics • Skills of system engineering skills and electrical engineering • Knowledge of quality engineering • Good presentation and negotiation skills • Native-level Mandarin preferred

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R&D Intern Positions

Corporate Research & Development Center

An engine of technological innovation constantly seeking new challenges, the Corporate Research & Development Center is the source of Toshiba's ability to advance hand in hand with people the world over toward a better, brighter future. Our mission is to create new products and systems that enrich the quality of life and invigorate society. Turning new knowledge and inventions into forms that serve the needs and aspirations of individuals and society is what innovation is all about. By linking exciting new discoveries and creativity to innovations, we aim to be a source of "Delight and Surprise" bringing people new empowering experiences underpinned by "Safe and Sound."

Related link: [Corporate Research & Development Center](#)

Internship in Corporate Research & Development Center

Position No.	RDC001
Laboratory	Computer Architecture & Security Systems Laboratory
Products	Applied Product of Field Programmable Gate Array (FPGA) and Application Specific Integrated Circuits (ASIC)
Location	Kawasaki, Kanagawa
Internship Project	High Performance FPGA Based Accelerator
	<p>Interns will be involved in the development of high-performance FPGA-based accelerator for an innovative algorithm (deep neural network or combinational optimization problem solver)</p> <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Skills of designing high-performance/ energy-efficient/ low-latency accelerators featuring deep-pipelined, massively parallel architectures which best utilize FPGA's computing resources. • Using of cutting-edge FPGA CAD tools (Verilog, High-level synthesis tools, OpenCL...etc.) • Insights of FPGAs: "Why FPGA now?", "What in FPGAs?", and "How to best utilize FPGAs?"
Basic Qualifications	<ul style="list-style-type: none"> • PhD degree or PhD candidate in electrical & computer engineering or computer science • Two or more peer-reviewed conference or journal papers • Knowledge and skills of FPGA or ASIC hardware design • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge or skills of FPGA hardware, FPGA-FPGA communication, CPU-FPGA communication, GPU/GPU cluster, FPGA-accelerated data center, ultra-low latency systems, etc.

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Position No.	RDC004
Laboratory	Media AI Laboratory
Products	Computer Vision and Speech Recognition
Location	Kawasaki, Kanagawa
Internship Project	Computer Vision and Image/ Speech Recognition
	<p>Interns will participate in one of following research projects.</p> <ul style="list-style-type: none"> • Environment recognition for autonomous driving • Path and action planning for autonomous robots • Training and evaluating modeling for spoken dialogue system <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Understanding Toshiba's technical process and solutions • Effective techniques to bring machine learning into wireless communications • Problem-solving techniques and team work
Basic Qualifications	<ul style="list-style-type: none"> • Master's or higher degree in a major related to computer vision and pattern recognition such as computer science/engineering, electrical & electronic engineering, information technology, mathematics, or mechanical engineering • Research experience and good knowledge of computer vision, pattern recognition and reinforcement, including machine learning or geometry • Experience of programming using C, C++ and Python languages • Excellent English communications skill
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of related technical areas, such as computer architecture, user interface, and embedded programming • Good presentation skills

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Position No.	RDC005
Laboratory	Electron Devices Laboratory
Products	Power Semiconductor and Optoelectronic Devices
Location	Kawasaki, Kanagawa
Internship Project	Research & Development of Semiconductor Devices in Industry
	<p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Understanding of Toshiba's technical process and solutions. • Using techniques and tools to better understand what customers are working on. • Problem solving techniques and team work.
Basic Qualifications	<ul style="list-style-type: none"> • PhD. in electrical & electronic engineering, materials science/ engineering, physics, Nano materials and devices, or related field • Strong understanding of solid state physics, semiconductor devices and circuits • Enduring motivation to realize novel electron devices
Preferred Qualifications	<ul style="list-style-type: none"> • Skills in semiconductor device processes, device evaluations, device simulations and power electronics circuits • Experience or presenting in an international conference

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Position No.	RDC006
Laboratory	Frontier Research Laboratory
Products	Semiconductor LSI products
Location	Kawasaki, Kanagawa
Internship Project	Neuromorphic Hardware
	<p>Interns will participate in R&D project related to 1) simulation of neuromorphic hardware or 2) characterization and operation of elementary devices for neuromorphic hardware.</p> <p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Basic knowledge and simulation skill of neural networks • Circuit design and simulation • Characterization and operation of elementary devices using a characterization board
Basic Qualifications	<ul style="list-style-type: none"> • PhD in semiconductor engineering related field. • Knowledge and experience of programming and simulation • Basic knowledge of semiconductor and integrated circuits • Excellent English communications skill
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of AI, device physics, information science or fundamental physics

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Position No.	RDC007
Laboratory	Frontier Research Laboratory
Products	Field Programmable Gate Array (FPGA)
Location	Kawasaki, Kanagawa
Internship Project	Development of Next Generation FPGA Prototype
	<p>You will gain experience in the following:</p> <ul style="list-style-type: none"> • Understanding deep insights of FPGA hardware, and algorithm of design tool. • Hardware design experience with FPGA and several modules
Basic Qualifications	<ul style="list-style-type: none"> • Master's or higher degree in electrical engineering or computer science • Knowledge of FPGA design and hardware description language (HDL) • Excellent English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Knowledge of interface circuit and analog circuit

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Corporate Software Engineering & Technology Center

Position No.	SWC001
Laboratory	Open Source Technology Department
Products	System Software and Middleware
Location	Kawasaki, Kanagawa
Internship Project	<p>System Software and Middleware Applied on Toshiba Products Using Linux or Web Application Frameworks/ Libraries</p> <p>The intern will be assigned to one of following research topics based on mutual discussion.</p> <p>Research Topic 1: Linux The intern will be provided a Linux-based embedded computer with modern Linux installed and internet access during the internship and expected to complete the mission of researching the following topics:</p> <ol style="list-style-type: none"> 1) Survey for real-time embedded operating systems for industrial IoT systems 2) Performance evaluation for multi operating system environment with hardware partitioning technology <p>Research Topic 2: web application frameworks/ libraries</p> <ol style="list-style-type: none"> 1) Evaluation of high speed rendering technology such as WebGL, WebAssembly, WebWorker and middleware development by using these technologies <p>Evaluation of WebRTC and middleware development by using this technology</p> <p>You will gain experience in the following:</p> <p>Research Topic 1: Linux</p> <ul style="list-style-type: none"> • Understanding of product development for next generation industrial IoT devices and services in Toshiba, using open source software • Problem solving techniques through collaboration with team members and open source community <p>Research Topic 2: web application frameworks/ libraries</p> <ul style="list-style-type: none"> • Knowledge and programming experience, evaluation method of new web technology
Basic Qualifications	<ul style="list-style-type: none"> • Master's or higher degree • Knowledge of operating systems, database architectures or web application frameworks/ libraries • For Linux team, experience in open source software development. • For database team, experience C and C++ and experience of working in Unix/ Linux environments, database development, networking, or security. • For web application frameworks/ libraries team, experience and knowledge in HTML/CSS/JavaScript, Java, network protocols such as HTTP, WebSocket, and TCP/UDP • Verbal and written English communication skills
Preferred Qualifications	<ul style="list-style-type: none"> • Experience in Linux kernel development or database development. • Experience in multi-process programming. • Interest in and ability to learn other programming languages (e.g.: Python, Perl or shell script). • Interest in and ability to learn conventional and new technology