

# 日本地區實習相關資訊 1

## --沖繩科學技術大學院大學（研究所大學）--

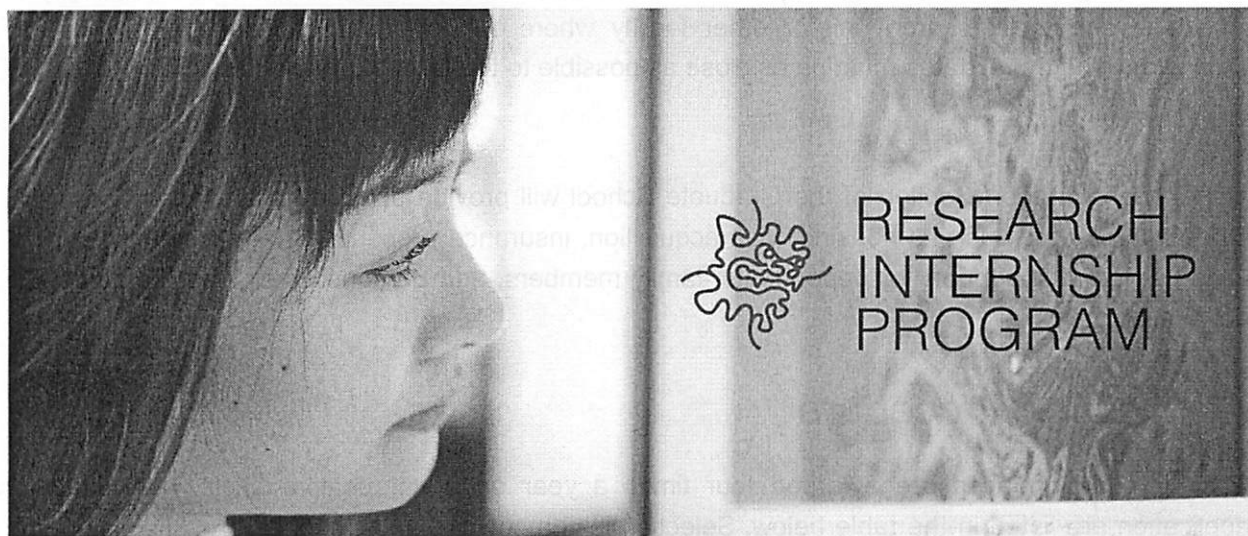
駐日本教育組提供

計畫名稱	沖繩科學技術大學院大學研究實習計畫
計畫內容 (摘要)	<ol style="list-style-type: none"><li>1. 該計畫提供日本及外國研究人員至該校進行研究實習機會，主要研究實習領域包含神經科學、分子生物學、海洋科學、數理與計算科學、物理學及化學等。</li><li>2. 一年共 4 次申請機會，實習期間為 2 至 6 個月。</li><li>3. 該計畫提供來回機票、相關保險、校內宿舍及實習津貼等待遇。</li></ol>
申請資格	日本及外國大學、研究所、短期大學、專門學校等在校生或已畢業但有志從事教育研究活動者。
申請手續	<ol style="list-style-type: none"><li>1. 僅接受線上報名。</li><li>2. 報名後該校將以電子郵件回覆受理情形。</li><li>3. 報名截止後實施書面資料審查。</li><li>4. 報名截止 1 個月後通知申請結果。</li><li>5. 通知申請結果後，將與申請人確認最終決定，並由該校承辦人與申請人洽談機票等相關事宜。</li></ol>
申請資料	提交以下英語資料： <ol style="list-style-type: none"><li>1. 履歷書。</li><li>2. 志願動機書。</li><li>3. 大學成績單。</li><li>4. 指導教授等推薦函 1 封。</li><li>5. 證件照片。</li></ol>
聯絡窗口	沖繩科學技術大學院大學學生支援部門 電話：+81-98-966-2271 電郵： <a href="mailto:research-intern@oist.jp">research-intern@oist.jp</a>
參考網站	<a href="https://groups.oist.jp/ja/grad/research-interns">https://groups.oist.jp/ja/grad/research-interns</a>
參考附件	Research Internship



Graduate School

## Research Internship



**Download: OIST Research Internship Program Information Flyer**

In addition to the OIST Doctoral Program, seminars, and workshops, the OIST Graduate School offers education and research opportunities through a system of undergraduate and graduate placements as Research Interns. These short-term placements as a Research Intern give talented students the opportunity to gain experience in a particular laboratory or to learn a specific technique. They work under the direction of a Professor at OIST and contribute to the research activities of OIST.

Places for Research Interns are awarded four times a year on a competitive basis, with application typically six months in advance.

### Eligibility

Those eligible to apply include students enrolled at graduate or undergraduate programs in universities, colleges, junior colleges, and vocational schools in Japan or overseas, or recent graduates of such institutions. Currently enrolled students must have approval from their home institution.

### Duration

The tenure of Research Intern placements is between 2 and 6 months, typically 10 to 12 weeks. Tenure will not normally be extended. Interns may not take extended leave during their time at OIST, and are expected to work full time on their project.

### Support

### Allowance

OIST provides living allowance, commuting support (where necessary), and accommodation either on campus or nearby. Successful applicants will receive a Living Allowance of 2,400 JPY per day (weekends excluded) whilst at OIST.

### **Travel Expenses**

OIST will pay for one direct roundtrip travel for Research Interns between the home university or institution and the research unit or other facility where the internship will take place (usually Okinawa). The travel dates must be as close as possible to the term of the placement.

### **Other Support**

The Student Support Section of the Graduate School will provide support for Research Interns at OIST with matters such as housing, visa acquisition, insurance procedures, and local registration. OIST regrets that support for dependents, family members, and persons other than the student is not available.

## **Application Procedure**

Research Intern places are awarded four times a year on a competitive basis. Deadlines for application are listed in the table below. Selection is competitive, and depends on suitability of the intended research, a student's academic background, and available funding and space. Professors accepting students under these programs will review the student's qualifications, research capabilities, and academic training in a comprehensive manner. Research units that can provide research intern positions in any year, and some information on the type of projects available, are described below.

The applicant is notified of the receipt of an application, and then of the outcome of their application once a decision has been made. OIST Graduate School will send the application result by email, and please be noted that ample time must be allowed for the issue of a visa and other necessary Japanese government documentation.

## **Required Application Materials**

We suggest you first download this **HANDY WORKSHEET** to guide your preparation of the application, as you must enter all details in the application form at once and cannot resubmit an application. Please fill out and submit the following materials to apply for the program:

- 1) Curriculum Vitae Sheet - OIST CV SHEET
- 2) Personal Statement - STATEMENT SHEET
- 3) Academic Transcript - Upload a scan of your current academic transcript in PDF format. Unofficial partial transcripts are accepted.
- 4) Recommendation Letter - A letter of reference from an academic or research professional familiar with your work is helpful; the application system will ask them directly. Please arrange for the consent of that person before submitting their details in the form.

5) ID Photo - Upload a recent photo, showing your face from the front in standard passport orientation (image must be in JPG format, and less than 5 MB).

Once you have obtained all the documents above, please attach and apply to the program through this [APPLICATION FORM](#)(closed for now).

## Application Deadline

All application documents, including the letter of recommendation, must be sent by the deadlines.

<b>Desired Starting Date</b>	Jan 4 - Mar 31 (Closed)	Apr 1 - Jun 30 (To be opened soon)	Jul 1 - Sep 30 (Closed)	Oct 1 - Dec 28 (Closed)
<b>Application Deadline</b>	Sep 15	Nov 15	Feb 28	May 31
<b>Approximate Date of Result Announcement</b>	Oct 15	Dec 15	Mar 28	July 1

## Contact

If you need any more information or assistance with your application, please contact us at: [research-intern@oist.jp](mailto:research-intern@oist.jp)

## Regulations

Applicants who intend to import biological or hazardous material for their research are urged to ensure that such import is in compliance with all regulations of their home country, any country of transit, and of Japan, and to complete all necessary paperwork for importation well ahead of time.

Detailed regulations pertaining to matters of payment, intellectual property rights, attendance, health and safety, and other matters have been drawn up and will be made available to successful applicants.

## 2018 Availability and Projects

Not all units are always available due to availability of research space or supervision at different times.

Professor	Unit Name	Availability 2018 interns per quarter	Research Interests and Project Information
Gordon Arbuthnott	Brain Mechanism for Behavior	1 position	For more information on Research Activities, see <a href="http://www.oist.jp/research-units">http://www.oist.jp/research-units</a>
Mahesh Bandi	Collective Interactions	1 position	<p>Fluid dynamics, experimental softmatter physics, nonequilibrium statistical physics and biomechanics. For example,</p> <ol style="list-style-type: none"> <li>1. Spreading of immiscible surfactants on polymer solutions.</li> <li>2. Studying black hole analogues with hydraulic jumps in soap films.</li> <li>3. Mechanics of robotic tail fins.</li> <li>4. Tearing and fracture in monolayers of soap bubbles.</li> <li>5. Measuring distribution of foot forces in human beings</li> <li>6. Frictional mechanisms in granular solids.</li> </ol>
Thomas Bourguignon	Evolutionary Genomics Unit	1 position	

Thomas Busch	Quantum Systems	2 positions	Projects of theoretical nature in the area of ultra cold atoms, quantum information and quantum engineering. Students should have a background in physics and during their time with us will get an overview of the current state of the area, and do analytical or numerical work on a project related to a currently ongoing research project, depending on their interest.
Pinaki Chakraborty	Fluid Mechanics	1 position	Projects in turbulent flows in many applications.
Keshav Dani	Ultrafast Spectroscopy	2 positions	Many applications of ultrafast spectroscopy and femtosecond lasers, including graphene research.
Erik De Schutter	Computational Neuroscience	1 position	Computational neuroscience, particularly modelling of cerebellar circuits and signalling.
Kenji Doya	Neural Computation	1 position	Projects in computational neuroscience and machine learning
Evan Economo	Biodiversity and Biocomplexity	2 positions	Projects are related to evolution, ecology, biodiversity: population genetics, morphological evolution, biogeography, 3D imaging and modeling, community ecology of ants.
Yejun Feng	Electronic and Quantum Magnetism Unit	1 position	

Eliot Fried	Mathematics, Mechanics, and Materials Unit	2 positions	Theory, simulation, and simple table-top experiments physical and biological processes with interesting geometrical or topological features, including Growth and coalescence of condensed droplets, Formation of ridges and cracks on tree bark, Healing of punctured soap films, and Water driven erosion of stone
Gustavo Gioia	Continuum Physics	1 position	Projects in solid mechanics in many applications
Igor Goryanin	Biological Systems	2 positions	Next-generation sequencing, Metagenomics, Gene expression analysis, Functional genomics, Biological network reconstruction
Izumi Fukunaga	Sensory and Behavioral Neuroscience Unit		
Shinobu Hikami	Mathematical and Theoretical Physics	2 positions	
Hiroki Ishikawa	Immune Signalling	1 position	
Denis Konstantinov	Quantum Dynamics	2 positions	<ol style="list-style-type: none"> <li>1. Photo-transport in 2D electron systems,</li> <li>2. Electron transport in confined geometrie</li> <li>3. Non-linear NMR in coupled nuclear-electron spin systems,</li> <li>4. Electron spin ensembles in diamond for QIP technologies</li> </ol>

Julia Khusnutdinova	Coordination Chemistry and Catalysis	2 positions	Modular ligand platforms for stabilization of transition metal complexes capable of multi-electron redox transformation. Ligand-assisted aerobic oxidation and electrochemical reactivity of organometallic compounds, and spectroscopy thereof.
Bernd Kuhn	Optical Neuroimaging	1 position	
Paolo Laurino	Protein Engineering and Evolution Unit	1 position	
Ichiro Maruyama	Information Processing Biology	1 position	Projects in associative learning and memory in the nematode <i>C. elegans</i> .
Ichiro Masai	Developmental Neurobiology	2 positions	Eye development in the zebrafish as a model system of neural development.
Alexander Mikheyev	Ecology and Evolution	No positions in 2018	
Satoshi Mitarai	Marine Biophysics	1 position	Marine biophysics, especially of the East China Sea and Western Pacific, with emphasis on currents and their effects on coral reef ecology.
Yasha Neiman	Quantum Gravity Unit	1 position	



Síle Nic Chormaic	Light-Matter Interactions	2 positions	Previous projects have included theoretical modelling on whispering gallery mode resonators, design of a confocal microscope, automation of laser cooling timing sequences, PID temperature control system for vacuum bake out, electronic sensors for water leakage detection in laser stabilization, optical tweezers construction, and measurement of mode excitation in whispering gallery mode resonators.
Fabian Pauly	Quantum Transport and Electronic Structure Unit	1 position late 2018	
Simone Pigolotti	Biological Complexity Unit	1 position	
Yabing Qi	Energy Materials and Surface Sciences	2 positions	<ol style="list-style-type: none"> <li>1. Research projects on energy storage materials and devices (e.g. Li ion batteries).</li> <li>2. Research projects on energy harvesting materials and devices (e.g. solar cells).</li> </ol>
Nori Satoh	Marine Genomics	1 position	
Hidetoshi Saze	Plant Epigenetics	1 position	
Nic Shannon	Theory of Quantum Matter	2 positions	
Amy Shen	Micro/Bio/Nanofluidics	1 position	Projects in Microfluidics and Nanofluidics (mixing, microfabrication, and hydrodynamics)
Tsumoru Shintake	Quantum Wave Microscopy	1 position	

Ulf Skoglund	Structural Cellular Biology	1 position	
Mukhles Sowwan	Nanoparticles by Design	1 position	
Tomoyuki Takahashi	Cellular and Molecular Synaptic Function	1 position	
Fujie Tanaka	Chemistry and Chemical Bioengineering	1 position	
Jun Tani	Cognitive Neurorobotics	1 position	Projects related to cognitive neurorobotics. Longer periods preferred.
Gail Tripp	Human Developmental Neurobiology	2 positions	
Davie Van Vactor	Formation and Regulation of Neural Connectivity	No positions in 2018	
Jeff Wickens	Neurobiology Research	1 position	
Matthias Wolf	Molecular Cryo-Electron Microscopy	1 position	
Tadashi Yamamoto	Cell Signalling	1 position	Projects in regulation of gene expression at the mRNA level, signaling in neuronal cells and cancer cells, and regulation of obesity using mouse models
Mitsuhiro Yanagida	G0 Cell Unit	1 position	
Yoko Yazaki-Sugiyama	Neuronal Mechanisms for the Critical Period	1 position	

Yohei Yokobayashi	Nucleic Acid Chemistry and Engineering	2 positions	<ol style="list-style-type: none"><li>1. Experimental project on functional nucleic acids (e.g. design riboswitches to control gene expression in living cells, high-throughput analysis of ribozymes). Requires some experience in molecular biology or biochemistry experiments.</li><li>2. Computational analysis of high-throughput sequence data on functional nucleic acids. Requires basic knowledge of biochemistry and programming skills to handle large sequencing datasets.</li></ol>
Ye Zhang	Bioinspired Soft Matter	2 positions	Tuning nano- or micro-structures through molecular manipulation Design and synthesis of active matter