"2026 RIKEN R-CCS Internship Opportunities（国内インターンシップ 2026）"

	Team/Unit		Research subject	Internship availablity （対応可否　○/ー）	Remarks（備考）
Research Teams / Science of Computing					
1	**Processor Research Team** (*Team Principal Kentaro Sano*)		Data-flow architecture (CGRA) for HPC and AI Reconfigurable high-performance computing systems Error correction and control for Fault-Tolerant Quantum Computers	○	**Team expects Master or Ph.D students**
2	**Large-scale Parallel Numerical Computing Technology Research Team** (*Team Principal Toshiyuki Imamura*)		Developing Numerical Libraries for Fast and Reliable Computations towards emerging Supercomputer systems	○	**Team expects Master or Ph.D students**
3	**Next Generation High Performance Architecture Research Team** (*Team Principal Masaaki Kondo*)		Exploring Next Generation High Performance Computer Architectures for Post-Moore Era	ー	
4	**High Performance Big Data Research Team** (*Team Principal Kento Sato*)		Developing System Software and Performance Analysis for Large-Scale Simulations, Big Data Processing and Deep Learning	○	**Team expects Master or Ph.D students** *Applicants to this team will find additional questions on the application form.
5	**High Performance Artificial Intelligence Systems Research Team** (*Team Principal Mohamed Wahib*)		High Performance Artificial Intelligence Systems, Intelligent Programming Systems, Performance Modeling of AI Systems e.g. Deep Learning Scalable Deep Learning Convergence of AI and Simulation	○	**Team expects Master or Ph.D students**
6	**Supercomputing Performance Research Team** (*Team Principal Jens Domke*)		Performance Modelling and Predictions, Hardware/Software Co-Design for HPC, Architecture and Application Evaluations, Instrumentation and Monitoring Tools, Auto-Tuning and Portability	○	
7	**Large-Scale Digital Twin Research Team** (*Team Principal Hirozumi Yamaguchi*)		Digital Twin Platform, Cyber-Physical System Smart City, Sensing Technologies Real-time Intelligent Data Processing	○	**Team expects Master or Ph.D students**
8	**High Performance Cloud Systems and Secure Software Research Team** (*Team Principal Atsuko Takefusa*)		Cloud Computing, Virtualization and Container Technologies Trusted Computing, Secure System Software IoT (Internet of Things)	ー	
Research Teams / Science by Computing					
9	**Field Theory Research Team** (*Team Principal Yasumichi Aoki*)		Utilizing Large-scale Computations to Explore the Fundamental Laws of Elementary Particles	○	**Team expects Master or Ph.D students**
10	**Discrete Event Simulation Research Team** (*Team Principal Nobuyasu Ito*)		Developing technology for massively parallel supercomputers to simulate social phenomena and their applications	○	
11	**Computational Molecular Science Research Team** (*Team Principal Takahito Nakajima*)		Development of Quantum Chemistry Theory and Software Materials Informatics for Energy Materials	○	
12	**Computational Materials Science Research Team** (*Team Principal Seiji Yunoki*)		Simulating Quantum States of Matter by Classical and Quantum Computers, and Development of Quantum Algorithms for Quantum Computing	○	
13	**Computational Biophysics Research Team** (*Team Principal Yuji Sugita*)		Depicting the Motion of a Biomolecule to Detail Its Function	○	**The team expects Master's or Ph.D. students who are interested in the development of MD and/or AI in Biophysics.**
14	**Computational Climate Science Research Team** (*Team Principal Hirofumi Tomita*)		Developing More Fundamental Climate Models for Improved Climate Simulation	○	
15	**Complex Phenomena Unified Simulation Research Team** (*Team Principal Makoto Tsubokura*)		Programs to Enable the Unified Simulation of Complex Phenomena	○	
16	**Data Assimilation Research Team** (*Team Principal Takemasa Miyoshi*)		Data Assimilation as a Bridge between Simulations and the Real World	○	
17	**Computational Structural Biology Research Team** (*Team Principal Florence Tama*)		Structural Biology Integrating Computation and Experimental Data	○	
18	**Computational Disaster Mitigation and Reduction Research Team** (*Team Principal Hirofumi Tomita*)		Development of Large-scale Numerical Simulations of Multi-hazard Natural Disasters	ー	
19	**Digital Materials Science Research Team** (*Team Principal Shinji Tsuneyuki*)		First-principles calculation Molecular dynamics method, Crystal structure exploration Dielectrics, Material properties under extreme conditions	ー	

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Operations and Computer Technologies Division					
20	**Facility Operations and Development Unit** （*Unit Leader Shin'ichi Miura*）		Data center operations Carbon Neutrality PUE (Power Usage Effectivenes) Power Consumption Thermal load	○	今後設備関係の保守・運用・導入を行いたい方を積極的に受け入れたい。アカデミック分野ではない方を特に期待 We strongly encourage applications from individuals who are motivated to work in facility maintenance, operations, and implementation. We welcome those who are considering career paths outside academia.
21	**System Operations and Development Unit** （*Unit Leader Yuji Iguchi*）		High Performance Computing Power Efficiency Job Scheduling	○	
22	**Software Development Technology Unit** （*Unit Leader Hitoshi Murai*）		HPC Programming Environment HPC application Parallel processing	○	
23	**Data Integration Technology Unit** （*Unit Leader Toshihiko Kai*）		HPC (High Performance Computing) Data Utilization Storage System Wide Area Network	○	
24	**Advanced Operation Technologies Unit** （*Unit Leader Keiji Yamamoto*）		Data center operations Big data processing Virtualization and containerization Cloud computing	○	
HPC- and AI-driven Drug Development Platform Division					
25	**HPC- and AI-driven Drug Development Platform Division** （*Division Director Yasushi Okuno*）		Biomedical Computational Intelligence Medicinal Chemistry Applied AI Molecular Design Computational Intelligence I-driven Drug Discovery Collaborative	ー	
Quantum-HPC Hybrid Platform Division					
26	**Quantum-HPC Hybrid Software Environment Unit** （*Unit Leader Miwako Tsuji*）		Research and development of software stacks for quantum-HPC hybrid computing platform	○	
27	**Quantum Computing Simulation Unit** （*Unit Leader Nobuyasu Ito*）		Development of simulation technology for quantum computers for the "Fugaku" and other HPC system, to accelerate quantum information technologies	○	
28	**Quantum-HPC Hybrid Platform Operations Unit** （*Unit Leader Shin'ichi Miura*）		Operation and its technology development of quantum-HPC hybrid computing platform	○	
AI for Science Platform Division					
29	**AI for Science Foundation Model Research Team** （*Team Principal Rio Yokota*）		AI for Science Foundation Model, Reasoning Model Scalable Deep Learning Agentic AI	○	**Team expects Master or Ph.D students**
30	**Learning Optimization Platform Development Unit** （*Unit Leader Mohamed Wahib*）		AI-based Science Infrastrcuture for Foundation Models (training inference) Generative AI in Science Integration of AI in Science	○	**Team expects Master or Ph.D students**
31	**Data Management Platform Development Unit** （*Unit Leader Kento Sato*）		Big Data Processing Platform, Deep Learning Platform Fault Tolerance, Performance evaluation/analysis HPC tools	○	**Team expects Master or Ph.D students** *Applicants to this team will find additional questions on the application form. **Please note that we may ask applicants to change their host team to High Performance Big Data Research Team.
32	**Advanced AI Device Development Unit** （*Unit Leader Kentaro Sano*）		Generative AI Next-generation foundation model Accelerator architecture for AI	○	**Team expects Master or Ph.D students**
33	**AI Development Computing Environment Operation Technologies Unit** （*Unit Leader Shin'ichi Miura*）		Operation and its technology development of quantum-HPC hybrid computing platform	○	
34	**Life and Medical Science Application Interface Platform Development Unit** （*Unit Leader Yasuhiro Matsunaga*）		Integrated Modeling Data Assimilation Molecular Dynamics Simulation	ー	
35	**Materials Science Application Interface Platform Development Unit** （*Unit Leader William Dawson*）		Quantum Chemistry, High-Performance Computing Artificial Intelligence, Materials Science Numerical Methods, Agentic AI for Materials Science and Chemistry	○	
Next-Generation HPC Infrastructure Development Division					
36	**Next-Generation HPC Infrastructure System Development Unit** （*Unit Leader Kentaro Sano*）		Development of FugakuNEXT Hardware system design, Computer architecture Co-design, Accelerators	ー	
37	**Next-Generation HPC Application Development Unit** （*Unit Leader Yasumichi Aoki*）		Development of FugakuNEXT HPC application, HPC-AI integration Benchmark and performace evaluation Co-design	ー	
38	**Next-Generation HPC Operation Technologies Unit** （*Unit Leader Keiji Yamamoto*）		Development of FugakuNEXT Data Center Design and Construction Operation technologies	ー	
39	**Advanced HPC Technologies Development Unit** （*Unit Leader Kento Sato*）		Next-Generation HPC Infrastructure Development Architecture System Software Application	ー	