

Internships and trainings at R-CCS

Conduct cutting-edge research that integrates simulation, big data analysis, and AI through high-performance computing (HPC).



On-site learning

At R-CCS, we accept students from technical colleges, universities, and graduate schools as interns in the Research Teams, Operations and Computer Technologies Division, HPC- and AI- driven Drug Development Platform Division, Quantum-HPC Hybrid Platform Division, and AI for Science Platform Division. We provide them with opportunities to experience and learn at the cutting-edge of research.

History of acceptance

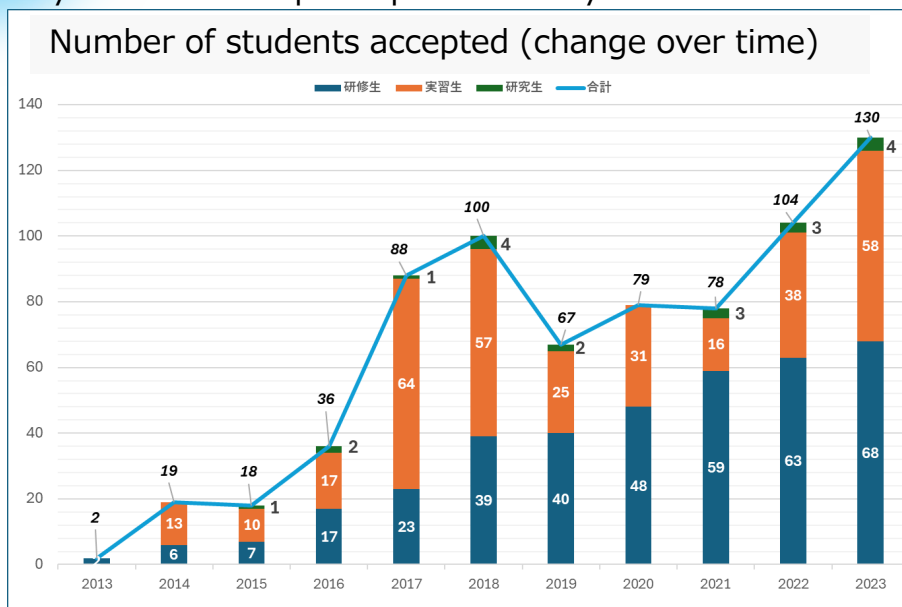
Domestic internships: since 2014

International internships: since 2017

We accept 50-60 internship participants annually. *See "Internship Participants" below for details.

We also accept interns and student trainees separate from the internship program.

Approximately 100 students participate annually.



Career Development at R-CCS
R-CCS Internship Programs



Internship participants

From Japan, FY 2014-24

Listed in Gojuon order, program-based internships only.

■高専

	高専本科生	専攻科生
1 群馬工業高等専門学校	1	
2 神戸市立工業高等専門学校		1
3 長野工業高等専門学校		1
4 沼津工業高等専門学校	1	
5 松江工業高等専門学校	4	

■大学

	学部生	修士	博士
1 JAIST			1
2 大阪大学			1
3 大阪府立大学	1		
4 金沢工業大学	1	1	
5 金沢大学		4	5
6 九州大学		2	
7 京都工芸繊維大学			1
8 京都大学	2	8	4
9 熊本大学	1		1
10 慶応義塾大学		6	2
11 工学院大学大学院			3
12 高知大学			1
13 神戸大学		1	1
14 埼玉大学	1		
15 静岡大学		1	
16 順天堂大学		1	
17 千葉大学		1	
18 筑波大学		8	8
19 電気通信大学		2	1
20 東京工業大学		7	7
21 東京大学	1	23	15
22 東北工業大学			1
23 東北大学		6	4
24 豊橋技術科学大学	6		1
25 同志社大学		1	
26 名古屋大学	2	3	1
27 南山大学	1		
28 広島市立大学		1	
29 広島大学		1	
30 兵庫県立大学		5	9
31 福井大学		1	
32 北陸道科学技術大学		1	
33 北海道大学		2	7
34 山梨大学			2
35 横浜国立大学			2
36 琉球大		1	

From overseas, FY 2017-24

Listed in alphabetical order, program-based internships only.

	Institution	Master	Doctor	Ph.D	other
1	Carnegie Mellon University			1	
2	CEA			1	
3	Chalmers University of Technology			1	
4	Clemson University			1	
5	Computer Science Polytechnic University of Barcelona (UPC)			2	
6	Daegu University			1	
7	Emory University			1	
8	ENS of Lyon		1		
9	ENSEIRB MATMECA		1		
10	ETH Zurich Mathematics (CSE)		1		
11	Federal University of Rio Grande				1
12	Federal University of Santa Catarina			1	
13	Florida State University			3	
14	Florida State University		3		
15	Friedrich-Alexander-Universitaet Erlangen-Nuernberg		1		
16	HANSRAJ COLLEGE, UNIVERSITY OF DELHI	1			
17	Hanyang University			3	
18	IMT Atlantique		1		
19	Indian Institute of Science, Mohali	1	1		
20	Indian Institute of Technology Madras			1	
21	Indian Institute of Technology, Bombay			2	
22	Karlsruhe Institute of Technology		1		
23	King Abdullah University of Science and Technology			1	
24	Koc University			1	
25	KTH Royal Institute of Technology in Stockholm			1	
26	Michigan State University			1	
27	Nanchang Hangkong University		1		
28	National Central University		1		
29	National Taiwan University			1	
30	National University of Ireland, Maynooth			1	
31	Northeastern University			1	
32	Politecnico di Milano			1	
33	Polytechnic University of Catalonia (UPC)			3	
34	Pukyong National University			2	
35	RWTH Aachen University			1	
36	School of Mechanical and Automotive Engineering South China University of Technology			2	
37	Scuola Normale Superiore			1	
38	Sejong University			1	
39	Sorbonne University LIP6			1	
40	Stony Brook University			1	
41	Swiss Federal Institute of Technology (ETH Zurich)		1		
42	Tampere University	1			
43	The Abdus Salam International Centre for Theoretical Physics		1		
44	The Australian National University			1	
45	Toronto University		1	1	
46	TUD Dresden University of Technology			1	
47	Universidad de Buenos Aires			1	
48	Universidade de Lisboa			1	
49	Universite de Bourgogne		1		
50	University Carlos III of Madrid			1	
51	University of Bologna			2	
52	University of California Berkeley	1			
53	University of Debrecen			1	
54	University of Iowa			2	
55	UNIVERSITY OF MALAYA			1	
56	University of Maryland, College Park			1	
57	University of Notre Dame			1	
58	University of Paris Saclay			3	
59	University of Szeged			1	
60	University of Tennessee			2	
61	University of Warsaw Faculty of Physics			1	
62	University of Western Brittany IUEM		1		
63	Washington State University Vancouver		1		

In the internship program, participants are assigned to an R-CCS team/unit for a period of 2 weeks to 3 months and engage in research based on their internship plan.

During the internship, participants also have opportunities to attend R-CCS-related symposiums, present their research, and interact with fellow interns as well as researchers from other teams.



Voices from the internship program

(From interviews with FY 2024 interns)

What was the best part of it?

"The environment that let me focus on my research."

"There are many researchers to collaborate with at R-CCS and many new opinions to learn from."

"I could join for an extended period and do my research deliberately."

"It was great to meet people from various countries, which led to an exchange of knowledge."

Did you face any challenges?

How did you handle them?

"Since there are few Japanese participants, language can sometimes be a challenge. However, I worked hard to communicate in English with interns from non-English-speaking countries."

"When running a file system on Fugaku, it works up to a certain environmental threshold, but wouldn't function beyond that. I tried multiple times and have also consulted with researchers."

"Although using Fugaku was challenging, I am grateful for the warm support from the team."

Would you recommend this program?

Why?

"Yes. Great opportunity to hear various opinions from different people. A change in environment is also exciting."

"I would recommend it. If you're interested, you should definitely go."

"Yes, I will recommend this program to other colleagues of mine. It is a great opportunity, and internship desk here at Riken makes things really easy."

How would you describe your internship?

"It was beneficial for my research. Through the program, I was able to decide on a clear direction for my research."

"I've got the opportunity to access the knowledge of more experienced member in my team. Even more relevant has been the possibility to meet new friends and co-workers to share ideas."

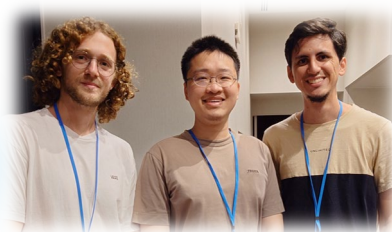


What new skills have you learned?

"Through consulting multiple people and receiving different answers, I developed the skill to make my own decisions for an answer that I am most satisfied with."

"I learned how to use Fugaku through this opportunity."

"I think I've learned a lot about how research center works, and how to interact with other co-workers. More importantly I've learned about new culture."



How will this internship help your career?

"I have become less resistant to using English (the psychological barrier has lowered)."

"Gained creativity, independence, and proactiveness toward research."

"The experience of conducting research at the forefront of Japan's technology will definitely be valuable."

"By expanding projects and networks, it became easier to build my career."

"I hope that the networking done here can help me in establishing new collaborations."



We are looking forward to meeting you at R-CCS!