

# 金属材料研究所報告

1. 国際共同研究拠点(GIMRT) 更新(発足後3年の2021年度に評価)  
今年度前期まで543件(年間で560件程度)、国内課題は過去最高水準  
国際課題は4月以降順調に再開  
強磁場センター33T無冷媒超伝導磁石(補正予算)の建設
2. GIMRTのお勧め
  - 1)海外研究者一金研一国内他機関との3者の共同利用・共同研究を支援  
金研強磁場で比熱測定, J-PARCで中性子回折, 神戸大で高圧ESR
  - 2)全国の若手の海外派遣を支援(50万円程度の旅費・滞在費)  
海外の研究機関で、3-4週間滞在して共同研究を実施, 国際共同研究のスタートアップ
  - 3)海外からの滞在型共同研究の推進Covis:Covisiting Program)  
客員教員(助教も可)と学生等と一緒に来日して共同利用を実施
  - 4)ワリカン方式の旅費支払いー他用務(国際会議等)と併せて共同利用  
複数の用務(休暇含む)に用いた日数で航空券をワリカン
  - 5)国際会議のスポンサーセッションを通じた支援

## Outline of Programs

### Use IMR Resources for Materials Science

#### Research Visit for a few weeks

- Single Research Visit

#### Staying at IMR for few months

- Visiting (Full, Assoc., Assist.) Professor
- Research Fellowship for DC student

#### Facilities

### IMR, Tohoku Univ.

#### Laboratories

International Research Center  
for Nuclear Materials Science

High Field Laboratory for  
Superconducting Materials

Cooperative Research and Development  
Center for Advanced Materials

Center of Neutron Science for  
Advanced Materials

Center for Computational  
Materials Science

Research Division, group and others

### Bridge domestic, overseas and IMR researchers

#### Multi-core research collaboration

- Bridging proposal

#### Research at Overseas Institute

- Travel Support for young scientist

#### Exchange of research community

- International Workshop organization

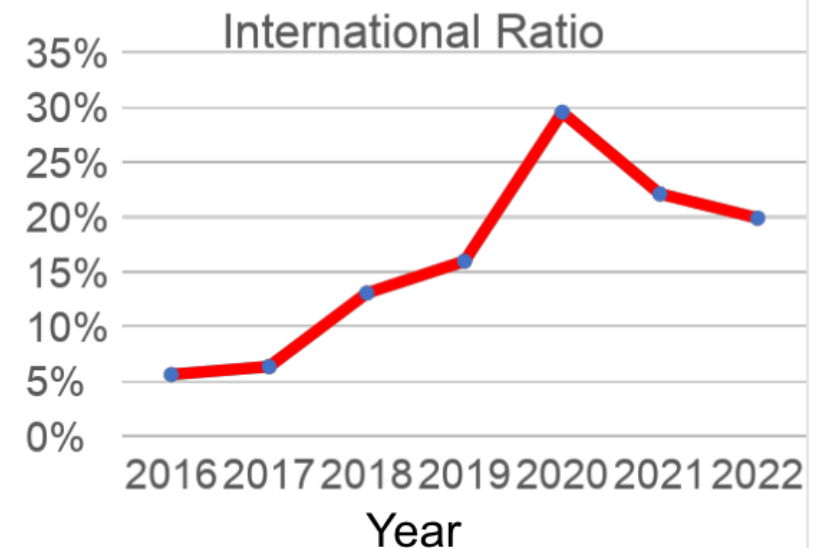
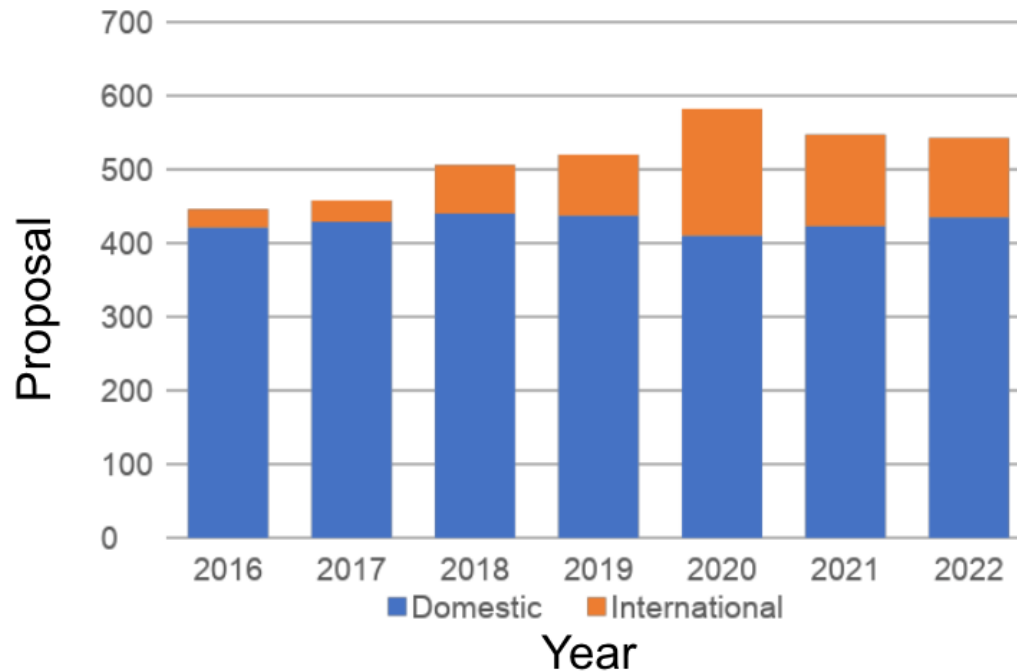
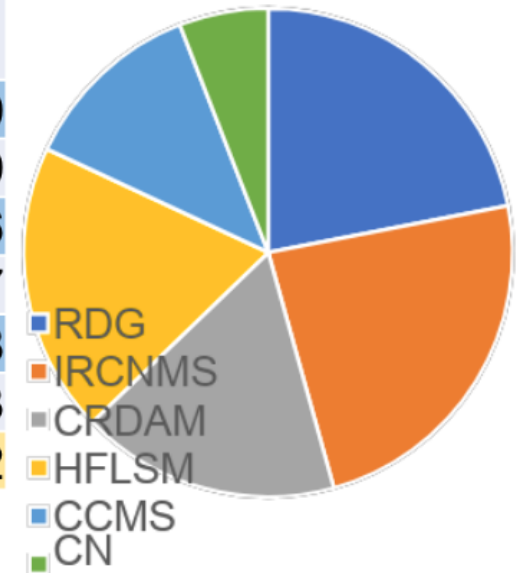
#### Long term collaboration

- Integrated Joint Project
- Joint Laboratory

# Application Statistics

	2022			2021			2020		
	Domestic	International	Total	Domestic	International	Total	Domestic	International	Total
RDG	94	25	119	103	41	144	96	53	149
IRNNS	79	50	129	78	43	121	79	40	119
CRDAM	82	11	93	84	11	95	97	9	106
HFLSM	92	12	104	94	10	104	90	17	107
CCMS	60	6	66	44	12	56	36	12	48
CN	28	4	32	20	7	23	16	7	23
Total	435	108	543	423	124	547	410	172	582

Composition





# GIMRT-II-Combining short and long research visits

## Challenge for re-accelerate international collaboration

GIMRT- I  
Single visit  
single year

GIMRT-II  
Combining short visit, long stay(guest researcher),  
cross appointments



Multi core collaboration  
Bridge Proposal

Community formation  
Workshop and event

Research visit for overseas  
Research Stay of young

Coordination  
Joint project  
Joint laboratory

Linkage

Single Visit/Short Term  
Facility type user

Long-residential stay  
Guest Researcher  
Student fellowship  
Cross-appointment

Package

Combine

GIMRT-II  
Involving more  
researchers

Global  
IMR  
Tohoku