



## Outcome of BAJC Baosteel Grant Applications (2023)

10 October 2023

Baosteel Australia Joint Research and Development Centre (BAJC) is a joint venture between Baoshan Iron and Steel Co., Ltd., also known as Baosteel, and five Australian universities - UQ, UNSW, Monash University, University of Wollongong and Deakin University. Baosteel is a core subsidiary of China Baowu Steel Group Corporation, the world's largest steel conglomerate. BAJC is within School of Chemical Engineering at UQ. Baosteel provides funding for BAJC to conduct fundamental research and joint industrial technology research, aiming to develop innovative science and technologies in areas of interest to Baosteel and aligned with the research capacities of the participant universities.

BAJC called for EOI applications for BAJC Projects to be funded by Baosteel Grant 2023 in May 2023. The Call-for-EOIs and associated documents for application are published in the Centre's website (<http://www.bajc.org.au/>). We received 17 EOI applications in total. All EOI applications were reviewed by Baosteel's Project Selection Committee consisting of Chief Research Engineers of Baosteel and Baosteel's representatives of Centre's Technical Advisory Panel. Baosteel shortlisted 11 applications out of the 17 EOIs, based on the criteria defined in BAJC Baosteel Funding Guidelines 2023.

BAJC invited and received 11 full proposal applications. After assessed by Baosteel TAP members and technical experts in Baosteel, 9 out of the 11 proposed projects have been approved by BAJC Board as the BAJC projects with total Baosteel fund of \$1,700,000 to be commenced from January 2024 over 3 years.

No.	Research Team			University	Project Title	Approved Funding (AUD)
	Proposal	Lead CI	Baosteel PI			
1	BA23001	Dr Jingsi Jiao	Jian Fang	Deakin	Towards an effective small-scale test for Baosteel line pipe steels	50,000
2	BA23003	A/Prof Chao Chen	Ruimin Wu	Monash	Legged robot autonomy for steel factory monitoring and inspection	300,000
3	BA23004	A/Prof Jun Yan	Shujin Jia	UoW	A BDI agent platform for smart modelling and integrated simulation of production scheduling, cargo loading, and logistics in the steel industry	200,000
4	BA23005	Dr Hui Wu	Zhao Xing	UoW	Mechanism and practical research on surface quality improvement of hot rolled plate steels under high chloridion water-based nanolubrication	250,000
5	BA23006	Prof Huijun Li	Yingchun Wang	UoW	Investigating solidification defects and improving quality of nitrogen-bearing steel using electric furnace smelting and continuous casting	200,000
6	BA23007	Prof Mingxing Zhang	Zhang Fan	UQ	Control of the electrical and magnetic properties of cable steels with high-conductivity	200,000
7	BA23008	Dr Rijia Lin	Jianchun Ni	UQ	Membrane CO2 capture processes for iron and steel industry	200,000
8	BA23010	Dr Gui Wang	Juntao Liu	UQ	Improving resistance to stress corrosion cracking (SCC) of high-performance aluminium alloys by tailoring alloying elements and microstructure	200,000
9	BA23011	Dr Wenxian Li	Shujin Jia	UNSW	High-entropy alloy based catalysts for green hydrogen evolution	100,000
Total						<b>1,700,000</b>



While congratulate the successful applicants, we acknowledge that all EOI applications and full proposal applications were highly regarded and appreciated. BAJC is keen to work with more academics and researchers of participating universities to develop high quality grant applications for successful projects with Baosteel next year.

Please email to [admin@bajc.org.au](mailto:admin@bajc.org.au) or contact Professor Geoff Wang on (07) 336 53928 should you have any query.

**Centre Management**  
**Baosteel Australia Joint Research and Development Centre (BAJC)**