

DATA KELOMPOK RISET (RESEARCH GROUP)

Nama Kelompok Riset	: Pengembangan Sistem Thermofluida Reaktor (Reactor Thermal-Fluids System Development)
Topik Riset	: Litabang dan Inovasi Peningkatan Sistem Pendingin Pasif Reaktor Nuklir Berdasarkan Penggunaan Variasi Fluida Kerja, Pendingin Bertingkat, dan Model Geometri. Serta Pengembangan Instrumentasi dan Sensor Pemantau Aliran Fluida.
Lingkup Kegiatan Riset	: <ul style="list-style-type: none">• Thermal-Hydraulics and Thermal-fluids Experimental• CFD Simulation Optimization• RELAP5/SCDAP Simulation• Coding Development for Thermal-Fluids• Material and Fluids Development for Thermal Utilization• Nanofluid & nanobubbles for Thermal-management• Neutron-Scattering Application for Boiling and Bubbles Measurements• Development for New Reactor Design by Natural Law Application• Cascade Passive Cooling System• Nano/Microbubbles Measurements Development
Nama Koordinator	: Dr. Ir. Mulya Juarsa, S.Si., MEng. NIP. 19690908 199703 1 005 (Peneliti Ahli Madya)
Alamat Email	: mulya.juarsa@brin.go.id / juars@batan.go.id
Satuan Kerja	: Pusat Riset dan Teknologi Keselamatan Reaktor Nuklir Organisasi Riset Tenaga Nuklir BRIN
Mitra Kerjasama Riset dengan PKS	: <ol style="list-style-type: none">1. Applied Heat Transfer Research Groups. Departemen Teknik Mesin, Fakultas Teknik, Universitas Indonesia (Prof. Dr.-Ing. Nandy Setiaji Jaya Putra)2. Pusat Studi Energi (PSE) , Universitas Gadjah Mada (Prof. Dr.Eng. Deendarlianto, ST., M.Eng.)3. FiNder U-CoE, Universitas Padjadjaran (Prof. Dr.Eng. I Made Joni, S.Si., MSc. & Prof. Dr.Eng. Camelia Panatarani, S.Si., M.Si.)4. Heat Transfer Research Group, Departemen Teknik Mesin, Fakultas Teknik, Universitas Udayana Bali (Dr. Wayan Nata Septiadi, ST., MT.)

SEJARAH PEROLEH DANA RISET

No.	Tahun	Judul Penelitian	Pendanaan	
			Sumber*	Jumlah dana
1	2007-2009	Studi Perpindahan Kalor Pendidihan pada Celah Sempit (<i>Chief investigator</i>)	Insentif RISTEK	Rp. 950.000.000,-
2	2012-2014	<i>Experimental Study on Organic Rankine Cycle base on Solar-Thermal (Chief investigator)</i>	LPPM-UIKA Bogor	Rp. 70.000.000,-
3	2014-2015	<i>Development on Organic Rankine Cycyle with Evaporator Using Semi-cylinder type Solar Thermal (Secondary Chief Invs.)</i>	Hibah Stranas Dikti	Rp.75.000.000,-
4	16 – 20 Februari 2015	<i>International Experts' Meeting on Strengthening Research and Development Effectiveness in the Light of the Accident at the Fukushima Daiichi Nuclear Power Plant (in Vienna, Austria)</i>	IAEA	2.500 USD
5	10 – 13 October 2016	<i>Consultancy Meeting On Finalizing the Planning for CRP 2012 on Design and Performance Assessment of Non-Electric Engineered Safety Features in Advanced Small Modular Reactors (in Vienna, Austria)</i>	IAEA	2.020 Euro
6	2015-2019	<i>Experimental and Software Simulation Study on Passive Cooling System for PWR Safety Development (Chief investigator)</i>	DIPA PTKRN BATAN	Rp. 200.000.000,-
7	30 October – 2 November 2017	<i>First Research Coordination Meeting on the Design and Performance Assessment of Passive Engineered Safety Features in Advanced Small Modular Reactors (CRP I3 2010) (in Vienna, Austria)</i>	IAEA	2.750 Euro
8	7 – 10 May 2018	<i>Second Research Coordination Meeting on the Design and Performance Assessment of Passive Engineered Safety Features in Advanced Small Modular Reactors (CRP I3 2010) (in Vienna, Austria)</i>	IAEA	2.630 Euro

9	2017 - 2019	Pengembangan Sistem Pendingin Pasif untuk Manajemen Kecelakaan Reaktor Nuklir Menggunakan Teknologi <i>Heat Pipe</i> (<i>Chief investigator</i>)	Insinas KEMENRISTE KDIKTI	Rp.483.440.000,- (Y1) Rp.400.000.000,- (Y2) Rp.470.000.000,- (Y3) Rp.1.353.440.000,- (3 Ys)
10	3 – 6 September 2019	<i>Second Research Coordination Meeting on Design and Performance Assessment of Passive Engineered Safety Features in Advanced Small Modular Reactors (CRP I3 2010) (in KAERI, South Korea)</i>	IAEA	1.680 Euro
11	2017-2020	<i>Circulation Flow using the Passive System Simulation Test Facility (FASSIP) for the Assessment of Natural Circulation Integral PWR Type SMR (Chief investigator)</i>	IAEA	8.500 Euro
12	2020 - 2021	Penilaian Keselamatan PLTN Besar dan SMR (Program Riset Nasional, DIPA Non-Operasional PTKRN BATAN) (<i>Chief investigator</i>)	BATAN- BAPENAS	Rp.209.000.000,- (Y1) Rp. 750.000.000,- (Y2) Rp. 959.000.000,- (2 Ys)
13	2021	Pengembangan Teknologi Pendingin Pasif Berbasis Fluida Nanobubbles untuk Peningkatan Manajemen Keselamatan PLTN Besar dan SMR (<i>Chief investigator</i>)	RISPRO LPDP Mandatori PRN PLTN Kemenkeu	Rp.900.000.000,-

Tangerang Selatan, 11 Januari 2022

Yang mengajukan

Dr. Ir. Mulya Juarsa, S.Si., MEng.
NIP. 196909081997031005