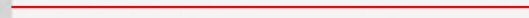




PROGRAM BEASISWA DOKTOR LPDP - BRIN



TUJUAN PROGRAM

**MENGEMBANGKAN
EKOSISTEM PADA BIDANG
STRATEGIS**



**MENINGKATKAN
KOMPETENSI PADA
PENELITI MUDA POTENSIAL**

**MEMBANGUN JEJARING
KOLABORASI DALAM
FRONTIER SCIENCE DAN
CUTTING EDGE
TECHNOLOGY PADA
BIDANG STRATEGIS**

**PENGUASAAN KNOWLEDGE
PADA BIDANG STRATEGIS
NASIONAL**

BEASISWA DOKTOR UNTUK TALENTA RISET NASIONAL BRIN

1. Pengembangan SDM Riset di **bidang-bidang yang tidak / belum dikuasai oleh periset Indonesia** namun dibutuhkan untuk Indonesia di masa depan;
2. Total **500 orang kandidat** untuk 5 tahun program;
3. Topik riset terdepan (4 area) – **frontier / advanced research, cutting edge technology**;
4. Mengikuti **topik riset dan perkembangan teknologi yang ada di laboratorium unggul dunia**, sehingga penentuan Kampus dilakukan oleh BRIN berbasis rekam jejak laboratorium host;
5. Bagi riset frontier/advance yang berbasis infrastruktur seperti riset teknologi radiasi dan nuklir & advanced biotechnology, maka akan **mengikuti keberadaan infrastruktur risetnya**;

KETENTUAN PENERIMA BEASISWA

	Beasiswa Strategis Nasional
Peserta	ASN, TNI-POLRI & Non ASN (Umum)
Batas usia pendaftar	Maksimal 27 tahun bagi pendaftar S3 Maksimal 25 tahun bagi pendaftar S2 dan S3
Waktu	Hingga S3 (up to 10 Semester pembiayaan)
Tempat studi	Full di host univ
Skema	Degree Course (regular) & Riset
Kampus Tujuan	LN- Spesifik berdasarkan keunggulan kelompok riset host
Topik Riset	(1) Advanced Biodiversity Utilization, (2) Maritime and Deep Sea, (3) Radiation and Nuclear Technology, (4) Space and Aeronautics
Seleksi	LPDP & BRIN
Monitoring	Tahunan (laporan tubel)
Wan Prestasi	Mengikuti regulasi LPDP
Re Entry Program	Postdoc di BRIN, Non ASN memiliki kesempatan Peneliti di bidang terkait melalui skema P3K dan CASN Sesuai dengan Ketentuan Berlaku

SKEMA BEASISWA DOKTOR UNTUK TALENTA RISET NASIONAL BRIN

- Program Beasiswa di Kelola oleh LPDP (Full Funding)
- Proses Pendaftaran dan Seleksi sesuai dengan ketentuan LPDP
- Pendaftaran melalui sistem informasi (website) LPDP
- Program Beasiswa Talenta Riset dan Inovasi terbuka untuk jenjang S3 dengan ketentuan sebagai berikut:
 - 1) Pendaftar dari jenjang S1 dapat mendaftar menggunakan LoA S3 dengan durasi pendanaan maksimal 60 Bulan (5 tahun /10 semester).
 - 2) Pendaftar dari jenjang S2 dapat mendaftar menggunakan LoA S3 dengan durasi pendanaan maksimal 48 Bulan (4 Tahun/ 8 Semester).

SKEMA PENDANAAN BEASISWA

1) Dana Pendidikan

- a. Dana Pendaftaran
- b. Dana SPP/Tuition Fee/Uang Kuliah Tunggal
- c. Dana Tunjangan Buku
- d. Dana Penelitian Tesis/Disertasi
- e. Dana Seminar Internasional
- f. Dana Publikasi Jurnal Internasional

2) Dana Pendukung

- a. Dana Transportasi
- b. Dana Aplikasi Visa
- c. Dana Asuransi Kesehatan
- d. Dana Kedatangan
- e. Dana Hidup Bulanan
- f. Dana Lomba Internasional
- g. Dana Tunjangan keluarga (khusus Doktor)
- h. Dana keadaan darurat (jika diperlukan)

BEASISWA DOKTOR UNTUK TALENTA RISET NASIONAL BRIN

Advanced Biodiversity Utilization

Genomic & Proteomic, Bioinformatics, Genetic Engineering, Transcriptomic, Metabolomic, Lipidomic, Protein/ enzyme engineering

(200 candidates for 5 years)

Deep Sea and Maritime

Deep Sea Research Technology

(30 candidates for 5 years)

Radiation and Nuclear Technology

Accelerator Technology, Plasma and Fusion Technology

(170 candidates for 5 years)

Space and Aeronautics

Satellite Technology and Avionics

(100 candidates for 5 years)

Bidang Radiasi dan teknologi Nuklir

No	Tema Riset	Universitas	Department/School/ Institute
1	Radioactive exploration and Mining Technology	East China University of Technology, Tiongkok	School of Earth Science
2	Material design and synthesis for selective separation of Actinide and Lanthanide	Hiroshima University, Jepang	Department of Chemistry
3	Nuclear and Chemical Engineering for storage and disposal of radioactive waste	IMT Atlantique, Perancis	Department of Subatomic Physics and Associated Technologies
4	Nuclear Engineering, Material and Chemical Engineering for nuclear waste management and decommissioning technologies	King Abdul Aziz University, Arab Saudi	Department of Nuclear Engineering
5	Nuclear Fuel Engineering	Korean Advanced Institute of Science and Technology, Korea Selatan	Department of Nuclear and Quantum Engineering
6	Plasma and Fusion Technology	Massachusetts Institute of Technology, Amerika Serikat	<ol style="list-style-type: none"> 1. Department of Mechanical Engineering 2. Department of Materials Science and Engineering 3. Department of Physics 4. Department of Nuclear Science & Engineering

Bidang Radiasi dan teknologi Nuklir

No	Tema Riset	Universitas	Department/School/ Institute
7	Technology of Superconducting Cyclotron Beam lines and experimental devices based on high intensity proton	Osaka University, Jepang	Department of Physics
8	Accelerator Design (linac, storage rings, optical design, insertion devices) and testing	Suranaree University of Technology, Thailand	Department of Physics
9	Beam line Design, testing		
10	Frontier technology related to accelerator	The Graduate University for Advanced Studies, Sokendai, Jepang	Department of Accelerator Science
11	Beam lines, monitoring and experimental devices based on high intensity electron, or positron		
12	Superconducting RF system		
13	ILC Project (International linear collider)		
14	Superconductivity and cryogenics, ultra-high precision mechanical technology for accelerator		

Bidang Radiasi dan teknologi Nuklir

No	Tema Riset	Universitas	Department/School/ Institute
15	Nuclear Engineering for nuclear fuel and materials	The University of Tennessee, Amerika Serikat	Department of Nuclear Engineering
16	Nuclear Material Engineering and Nuclear Fuel Engineering	Tsinghua University, Tiongkok	1. Division of New Materials, Institute of Nuclear and New Energy Technology 2. Division of fine ceramic, Institute of Nuclear and New Energy Technology
17	Physics and Technology of Nuclear Reactors	University of Birmingham, Inggris	School of Physics and Astronomy
18	Nuclear and Chemical Engineering for nuclear waste management and decommissioning technologies	University of Leeds, Inggris	School of Chemical and Process Engineering

Bidang Antariksa dan Aeronautika

No	Tema Riset	Universitas	Department/School/ Institute
1	Teknologi Synthetic Aperture Radar (SAR)	Aalto University, Finlandia	Department of Electronics and Nanoengineering
2	Low noise, high efficiency propeller for electric aircraft	Bristol University, Inggris	Department of Aerospace Engineering
3	Non Linear Transient Finite Element Method /Crashworthiness and Impact Response of Materials and Structures /Analysis Led Design and Optimisation	Brunel University London, Inggris	College of Engineering, Design and Physical Science
4	Recycling /Advanced Material Science or (Material Design, Selection, and Characterisation)	Central South University, Tiongkok	School of Metallurgy and Environment
5	Low noise, high efficiency propeller for electric aircraft	Chalmer University of Technology, Swedia	Department of Mechanics and Maritime Sciences
6	Teknologi Synthetic Aperture Radar (SAR)	Chiba University, Jepang	1. Department of Urban Environment System 2. Department of Environmental Remote Sensing
7	Nanomaterials, Smart Materials, Surface Engineering, Ultraprecision & Nano-engineering	Cranfield University, Inggris	School of Aerospace, Transport and Manufacturing

Bidang Antariksa dan Aeronautika

No	Tema Riset	Universitas	Department/School/ Institute
8	Aerospace Structures	Delft University of Technology, Belanda	<ol style="list-style-type: none"> 1. Department of Aerospace structure and Material 2. Department of Space Engineering 3. Department of Control and Operations
9	Satellite System Engineering		
10	Flight Dynamics & Control		
11	Ionosphere Scintillation		
12	Advanced Lightweight and Composite Structures	ETH Zurich, Swiss	Department of Mechanical and Process Engineering
13	Composites	Imperial College London, Inggris	Department of Aeronautics
14	Aerospace Engineering, Material and Chemical Engineering	King Abdul aziz University, Arab Saudi	<ol style="list-style-type: none"> 1. Department of Aerospace Engineering 2. Department of Mining Engineering

Bidang Antariksa dan Aeronautika

No	Tema Riset	Universitas	Department/School/ Institute
15	Astronomy	Kyoto University, Jepang	Department of Astronomy
16	Astrophysics	Leiden University, Belanda	Leiden Observatory
17	Astrophysics	Liverpool John Moores University, Inggris	LJMU's Astrophysics Research Institute (ARI)
18	Satellite System Engineering	Massachusetts Institute of Technology, Amerika Serikat	Department of Aeronautics and Astronautics
19	Penguasaan Teknologi synthetic Aperture RADAR	Mersin University, Turki	Department Of Electrical And Electronics Engineering
20	Penguasaan Teknologi Spaceborne SAR, Ground Based SAR dan MIMO Radar untuk Deformasi Lahan dan Monitoring Infrastruktur	Muroran Institute of Technology, Jepang	<ol style="list-style-type: none"> 1. Department of Science and Informatics 2. Department of Mechanical, Aerospace and Material Engineering

Bidang Antariksa dan Aeronautika

No	Tema Riset	Universitas	Department/School/ Institute
21	Solar Terrestrial Physics	Nagoya University, Jepang	<ol style="list-style-type: none">1. Department of Physics2. Department of Electrical Engineering, Electronics, and Information Engineering3. Department of Earth and Environmental Studies
22	Advanced Lightweight and Composite Structures	Nanyang Technological University, Singapura	School of Mechanical and Aerospace Engineering
23	Flight Mechanics, Flight Control and Aeroelasticity	Technical University Berlin, Jerman	Institute of Aeronautics and Astronautics
24	Drone Application Technology	Technical University of Munich, Jerman	Department of Aerospace and Geodesy
25	Artificial Intelligence	The University of Tokyo, Jepang	<ol style="list-style-type: none">1. Department of Aeronautics and Astronautics2. Department of Electrical Engineering and Information Systems

Bidang Antariksa dan Aeronautika

No	Tema Riset	Universitas	Department/School/ Institute
26	Lightweight structure for Aerospace Application	Tohoku University, Jepang	Department of Aerospace Engineering
27	Development of novel vision and acoustic based sensing systems for indoor navigation Flow control, including development of fluidic manoeuvre effectors for flapless aircraft, flow separ Flapping flight.	University of Manchester, Inggris	Department of Mechanical, Aerospace and Civil Engineering
28	Development of flapping wing propulsion systems for sub 1g insect like flight vehic Fluidic micropumping solutions for industrial applications		
29	Low noise, high efficiency propeller for electric aircraft	University of New South Wales, Australia	Department of Mechanical and Manufacturing Engineering
30	Aerospace Materials	University of Sheffield, Inggris	1. Department of Materials Science and Engineering 2. Department of Aerospace
31	Manufacture		

Bidang Antariksa dan Aeronautika

No	Tema Riset	Universitas	Department/School/ Institute
32	Small Satellite Technology	University of Surrey, Inggris	Department of Electrical and Electronic engineering
33	Propulsion (Aero-Chemo-Thermodynamics)	University of Texas at Austin, Amerika Serikat	Department of Aerospace Engineering and Engineering Mechanics
34	space electronics, space system engineering	University of Toronto, Kanada	University of Toronto Institute for Aerospace Studies
35	Geo-Information Science and Earth Observation	University of Twente, Belanda	Department Earth observation Science

Bidang Teknologi Laut Dalam Dan Maritim

No	Tema Riset	Universitas	Department/School/ Institute
1	Freshwater Ecology, Water	Charles Sturt University, Australia	Gulibali Institute
2	Freshwater Ecology, Water	Hamburg University, Jerman	Department of Biology
3	Marine Life Science and Molecular Chemistry	Mie University, Jepang	Department of Life Sciences and Chemistry
4	Deep and open sea science and engineering	Ocean University Of China, Tiongkok	1. College of Information Science and Engineering 2. College of Chemistry and Chemical Engineering 3. College of Marine Geo- sciences
5	Marine Bioproduct	Pukyong National University, Korea Selatan	Department of Biomedical Engineering
6	Deep sea Geosains	The University of Otago, Selandia Baru	Department of Marine Science

Bidang Teknologi Laut Dalam Dan Maritim

No	Tema Riset	Universitas	Department/School/ Institute
7	Sub Sea-floor Mineralization	The University of Tokyo, Jepang	<ol style="list-style-type: none">1. Department of Materials Engineering2. Department of Applied Chemistry3. Department of Chemical System Engineering4. Department of Chemistry and Biotechnology5. Department of Advanced Interdisciplinary Studies6. Department of Bioengineering
8	Deep Sea Science	University of Bergen, Norwegia	Department of Earth Science
9	Deep and Open Sea Science and Engineering	University of California San Diego, Amerika Serikat	Scripps Insitute of Oceanography

Bidang Teknologi Laut Dalam Dan Maritim

No	Tema Riset	Universitas	Department/School/ Institute
10	Deep sea science	University of Hawai'i at Manoa, Amerika Serikat	<ol style="list-style-type: none"> 1. Department of Ocean and Resources Engineering 2. Department of oceanography 3. Department of Earth Sciences
11	Coastal and Marine geology	University of Seoul, Korea Selatan	School of Earth and Environmental Sciences
12	Mineral and Energy Research		
13	Natural Products Metabolomics	University of Strathclyde, Inggris	<ol style="list-style-type: none"> 1. Department of Naval Architecture, Ocean & Marine Engineering 2. Strathclyde Institute of Pharmacy and Biomedical Sciences
14	Naval Engineering		

Bidang Teknologi Laut Dalam Dan Maritim

No	Tema Riset	Universitas	Department/School/ Institute
15	Deep Sea Science	University of Tasmania, Australia	Institute of Marine and Antarctic Studies
		University of Western Australia, Australia	School of Biological Science
16	Aquaculture and Fisheries	Wagenigen University Research, Belanda	Department of Animal Science

Bidang Pemanfaatan Biodiversitas Maju

No	Tema Riset	Universitas	Department/School/Institute
1	Biotechnology and Applied Microbiology (Synthetic Biology)	a. Harvard University, Amerika Serikat	Department of Genetics
2	Enzyme Discovery	b. John Hopkins University, Amerika Serikat	Department of Chemistry
3	Enzyme Technology	c. Massachusetts Institute of Technology , Amerika Serikat	1. Department of Biological Engineering
4	Protein Engineering	d. Stanford University, Amerika Serikat	2. Department of Biology
5	Fermentation technology	e. Technical University of Denmark, Denmark	Department of Bioengineering
6	Cell Factory Engineering	f. University of California Berkeley, Amerika Serikat	1. Department of Chemical Engineering 2. Department of Biotechnology and Biomedicine
			Department of Chemical & Biomolecular Engineering

Bidang Pemanfaatan Biodiversitas Maju

No	Tema Riset	Universitas	Department/School/ Institute
		h. University of California San Diego, Amerika Serikat	Department of Pharmacology
		i. University of Cambridge, Inggris	Department of Biochemistry
7	Omics	a. KU Leuven Belgia, Belgia	Department of Biosystem
		b. Kyoto University, Jepang	Division of Applied Science
		c. Rutgers University, Amerika Serikat	Department of Plant Biology
		d. Tsukuba Univesity, Jepang	Department Life and Environmental Sciences
		e. Suranaree University of Technoligy, Thailand	1. School of Biotechnology 2. School of Biology
8	Synthetic Biology	Lund University, Swedia	Department of Chemistry
9.	Genetic Engineering	Nara Institute of Science and Technology, Jepang	Division of Biological science

Bidang Pemanfaatan Biodiversitas Maju

No	Tema Riset	Universitas	Department/School/ Institute
10	Bioinformatics	a. Osaka University, Jepang	Graduate School of Information Science and Technology Center of Infectious Disease Education and Research, (CIDER)
		b. University of Groningen, Belanda	Biomolecular Sciences and Biotechnology Institute (GBB)
11	Genome editing	a. Osaka University, Jepang	1. Graduate School of Information Science and Technology 2. Center of Infectious Disease Education and Research, (CIDER)
		b. Tsukuba University, Jepang	Department Life and Environmental Sciences
		c. University of Queensland, Australia	Australian Institute for Bioengineering and Nanotechnology (AIBN)

Bidang Pemanfaatan Biodiversitas Maju

No	Tema Riset	Universitas	Department/School/ Institute
12	Microbial engineering	Suranaree University of Technology, Thailand	1. School of Biotechnology 2. School of Biology
13	Fermentation technology	a. Technical University of Denmark, Denmark	1. Department of Chemical Engineering 2. Department of Biotechnology and Biomedicine
		b. University Putra Malaysia, Malaysia	1. Department of Microbiologi and 2. Department Bioprocess Technology 3. Department Cell and Molecular Biology

Bidang Pemanfaatan Biodiversitas Maju

No	Tema Riset	Universitas	Department/School/ Institute
14	Novel Enzyme discovery	Technical University of Denmark, Denmark	Department of Chemical Engineering Department of Biotechnology and Biomedicine
15	Antibody Engineering		
16	Microalgae Engineering	Universitas Khalifa, Uni Emirat Arab	Department of Chemical Engineering
17	Microbial Technology and Structural Biology	Universiti Putra Malaysia, Malaysia	<ol style="list-style-type: none"> 1. Department of Microbiologi and 2. Department Bioprocess Technology 3. Department Cell and Molecular Biology
18	Enzyme engineering	<u>University of Portsmouth</u> , Inggris	School of Biological Sciences