

**LAMPIRAN. DAFTAR PENERIMA HIBAH PENDANAAN PROGRAM RISET PRIME ENGINEERING SEED FUND BATCH 1 DANA INSTITUT TEKNOLOGI SEPULUH NOPEMBER BATCH 2 TAHUN 2024**

<b>No</b>	<b>Topik</b>	<b>Judul Penelitian</b>	<b>Nama Peneliti ITS</b>	<b>Departemen</b>	<b>Fakultas</b>
1	<i>Bioengineering: Biomechanics, Bionics and Rehabilitation Engineering</i>	<i>Customized Implant Technology: Leveraging a National Distributed Manufacturing Network for Tailored Medical Solutions</i>	Fahmi Mubarok, S.T., M.Sc., Ph.D.	Teknik Mesin	Fakultas Teknologi Industri dan Rekayasa Sistem
2	<i>Bioengineering: Biomechanics, Bionics and Rehabilitation Engineering</i>	<i>Smart Customized Wearable Sensor and Device using Additive Manufacturing Technology and Internet of Things</i>	Alvian Toto Wibisono, S.T., M.T., Ph.D.	Teknik Material dan Metalurgi	Fakultas Teknologi Industri dan Rekayasa Sistem
3	<i>Bioengineering &amp; Biomaterials for Human Good Health and Wellbein</i>	<i>Development of 2D/3D Scaffold Based on Indonesian Marine Resources</i>	Prof.Dr. Agung Purniawan, S.T., M.Eng.	Teknik Material dan Metalurgi	Fakultas Teknologi Industri dan Rekayasa Sistem
4	<i>Bioengineering &amp; Biomaterials for Human Good Health and Wellbein</i>	<i>Development of Artificial Intelligence-Based Rapid Molecular Test Through PCR for the Detection of Tuberculosis and Multidrug Resistant Tuberculosis</i>	Prof. Endarko, M.Si., Ph.D.	Fisika	Fakultas Sains dan Analitika Data
5	<i>Environmental Engineering – Water Resources Conservation for Sustainable Livelihood</i>	<i>Domestic and Non Domestic Water Demand Forecasting Model Development using Machine Learning</i>	Ervin Nurhayati, S.T., M.T., Ph.D.	Teknik Lingkungan	Fakultas Teknik Sipil, Perencanaan, dan Kebumihan

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6	<i>Environmental Engineering - Water Resources Conservation for Sustainable Livelihood</i>	<i>Preliminary Research on Water Quality/Aquatic Environmental Index, Water Quality Management and Information System for The New Capital of Indonesia</i>	Prof. Ir. Eddy Setiadi Soedjono, Dipl.SE., M.Sc., Ph.D.	Teknik Lingkungan	Fakultas Teknik Sipil, Perencanaan, dan Kebumihan
7	<i>Environmental Engineering - Water Resources Conservation for Sustainable Livelihood</i>	<i>Integrative Strategies for Air Pollution and Flood Risk Management in Indonesia's New Capital: Utilizing Satellite Imagery, Machine Learning, and Gamification</i>	Prof. Mokhamad Nurcahyadi, S.T., M.Sc., Ph.D.	Teknik Lingkungan	Fakultas Teknik Sipil, Perencanaan, dan Kebumihan
8	<i>Sustainable, Smart, Resilient, and Liveble Cities</i>	<i>Smart Sustainable Urban Flood Management. A Decision Support System Towards Sensing City, Lesson Learned from Surabaya Case for IKN Development</i>	Hepi Hapsari Handayani, S.T., M.Sc., Ph.D.	Teknik Geomatika	Fakultas Teknik Sipil, Perencanaan, dan Kebumihan
9	<i>Sustainable, Smart, Resilient, and Livable Cities</i>	<i>Collaborative Approaches in Mapping &amp; Mitigating Exposures and Vulnerable Groups for a Resilient Capital City with Generative AI</i>	Prananda Navitas, S.T., M.Sc., Ph.D.	Perencanaan Wilayah dan Kota	Fakultas Teknik Sipil, Perencanaan, dan Kebumihan
10	<i>Sustainable, Smart, Resilient, and Livable Cities</i>	<i>Digital Twin of Nusantara: Integrated 3D Land Administration &amp; Spatial Plan Management</i>	Dr. Filsa Bioresita, S.T., M.T.	Teknik Geomatika	Fakultas Teknik Sipil, Perencanaan, dan Kebumihan
11	<i>Cleaner Energy and Energy Efficient System &amp; Products</i>	<i>Energy Generation From Local Biomass &amp; Waste Source</i>	Fadlilatul Taufany, S.T., Ph.D.	Teknik Kimia	Fakultas Teknologi Industri dan Rekayasa Sistem

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12	<i>Cleaner Energy and Energy Efficient System &amp; Products</i>	<i>Energy Master Planning For Net-Zero Emission Communities (Nzecs): Ibu Kota Nusantara (IKN) Study Case</i>	Dr.Eng. Rony Seto Wibowo, S.T., M.T.	Teknik Elektro	Fakultas Teknologi Elektro dan Informatika Cerdas
13	<i>Cleaner Energy and Energy Efficient System &amp; Products</i>	<i>Planning for Nearly Zero Energy Buildings (NZEBS): Ibu Kota Nusantara (IKN) Case Study</i>	Prof. Dr. Ir. Vincentius Totok Noerwasito, M.T.	Arsitektur	Fakultas Teknik Sipil, Perencanaan, dan Kebumihan
14	<i>Cleaner Energy and Energy Efficient System &amp; Products</i>	<i>Nearshore Electricity Generation Technologies (Floating PV, Wind, etc.)</i>	Prof. Ir. I Ketut Aria Pria Utama, M.Sc., Ph.D.	Teknik Perkapalan	Fakultas Teknologi Kelautan