




ARAUCARIA

Araucaria mobilizes the Science, Technology, and Innovation System for the sustainable development of Paraná, creating wealth and quality of life through knowledge.

It operates in strategic areas identified for socioeconomic development and increased competitiveness in Paraná, including agribusiness and agriculture, sustainable/renewable energy, biotechnology and health, smart cities, digital transformation, sustainable development, and society, economy, and education. It is a member of the National Council of Research Support Foundations - Confap.


Araucaria's programs are developed in three major strategic axes:



*Promoting Science,
Technology and Innovation*



*Researcher
Training*

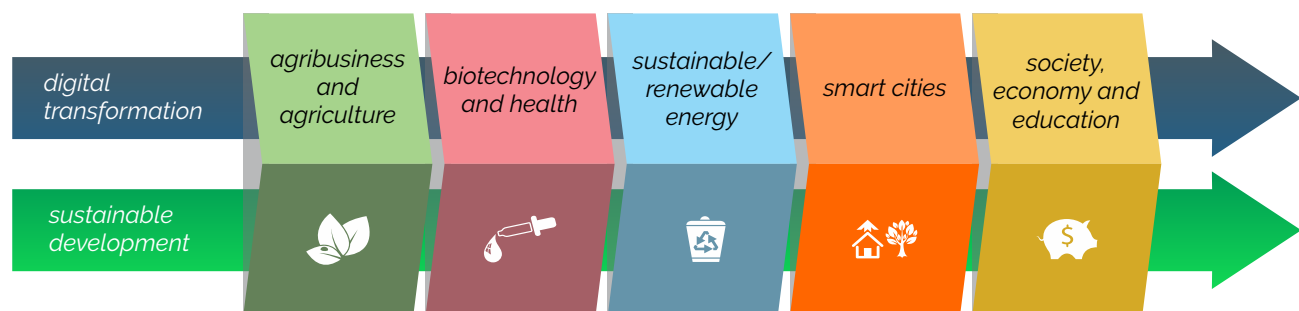


*Dissemination of Science,
Technology and Innovation*

New Research and Innovation Arrangements

Activating and Consolidating the ST&I Ecosystems

The New Research and Innovation Arrangements aim to conduct collaborative knowledge production by researchers from Paraná, based on the [iAraucaria platform](#). They are directed to meet sectoral, regional, and state demands in an integrated and streamlined manner, aiming for better utilization of existing actors and assets. The emphasis is on improving mobilization and integration between territories and assets, leading companies, and key development factors. Focused on wealth and well-being creation, they lead to greater accuracy in Araucaria's support instruments and, consequently, a better return on investment in R&D.



Araucaria objectives

- Support research or scientific and technological development units or hubs through scholarships, projects, programs, or investments;
- Support research and human resources training, aiming for scientific, technological, economic, and social development in Paraná;
- Identify priority sectors, as well as national and international exchanges and researcher training in prioritized areas;
- Identify, attract, negotiate, and capture investments for sectors aligned with our social objectives;
- Promote and support the publication of studies, research, and other documents that assist in the widespread dissemination of knowledge necessary for scientific and technological development;
- Optimize and oversee resources applied in its areas of interest, both from its sources and from third parties;
- Align actions with the objectives of the State Policy for Scientific and Technological Development in Paraná, prioritizing activities in accordance with this policy.



State Secretariat of Science, Technology and Higher Education

The State of Paraná has a prominent position in Brazil as it is, proportionally, the State that invests the most in higher education. The government actions in the area are under the management of the State Secretariat of Science, Technology and Higher Education - SETI and include the sponsorship of **seven State Universities**.

The mission of SETI is to define and implement public policies, as well as to set up the general guidelines related to the State System of Science, Technology and Higher Education.

Among its duties, the Secretariat is also responsible for the promotion of research and technological innovation regarding the various needs of the society and encouraging the collaboration between universities and research institutes with the productive sector.

SETI is responsible for managing the Paraná Fund, which has an **annual budget** of around 500 million Reais (circa **USD 100 million**), around 2% of the total annual revenue of the State of Parana. This amount is entirely invested in research projects.

The State Universities of Parana are listed among the top in the country with a remarkable handicap in some prestigious international rankings.

Located in the different regions of Parana, the State Universities dedicate the most of their activities to the development of the different territories initiatives and the numbers include **63.000 students** in undergraduate courses, **9.000 in master offers** and **over 200 doctoral programs**.

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STATE UNIVERSITIES

State University of Londrina (UEL) | State University of Maringa (UEM)
State University of Ponta Grossa (UEPG) | State University of Western Parana (Unioeste)
State University of Central-West (Unicentro) | State University of Northern Parana (UENP)
State University of Parana (Unespar) | Virtual University of Parana (UVPR)



Government of the State of Parana
State Secretariat of Science, Technology and Higher Education
Araucaria Foundation for Supporting Scientific and Technological Development of the State of Parana

Araucaria's International Mission

Ramiro Wahrhaftig **President of the Araucaria Foundation**

Civil engineer graduated from UFPR, with a master's degree in Energy Planning from UFRJ and a doctoral candidate in Technology and Innovation at the University of Technology of Compiègne (UTC), France. He interrupted his studies in 1995 to take over as Secretary of State for Education in Paraná. He has also been a visiting scholar at Twente University of Technology, Netherlands, McGill University, Canada, and the University of Texas at Austin, USA. He was Secretary of State for Education of Paraná (1995-1998), also Secretary of Science, Technology and Higher Education (1999-2002), accumulating in 2002 the Secretary of State for Industry, Commerce and Tourism. He was a professor, vice-rector of research and extension and advisor to the rector of PUCPR. In recent years, he has been at Itaipu Binacional, as Director of Coordination and Advisor to the General Director (2017), and lastly, he held the position of Superintendent Director of the Itaipu Technological Park (2017-2018).

Eliane Segati Rios **Advisor for International Strategic Projects, Araucaria Foundation**

Is also State Coordinator of Paraná Speaks Foreign Languages Program (English, French, Spanish and Portuguese) for the State Secretary of Science, Technology and Higher Education - SETI. Also, Executive Secretary for the International Chamber and Mobility of the Brazilian Association of Rectors of State and Municipal Universities (Abruem). Eliane is an adjunct professor at the State University of Northern Parana (UENP), where she was in charge of the International Office (2014-2022). During the period of 2019-2021, was the Vice-President of the Brazilian Association for International Education (Faubai), and has already integrated international missions representing both the country and the state. Is a holds a PhD in Language Studies and carries out research on the internationalization process, cooperation and impact in Brazilian higher education context.

Paulo Cesar Rezende De Carvalho Alvim **Executive Director of Cilla Tech Park, Guarapuava-PR**

He is a Civil Engineer, graduated from the Federal University of Rio de Janeiro, Master in Information Science, graduated from the University of Brasilia. From 2000 to 2002 he was Director of the Department of Labor Intensive Sectors of the MDIC Production Development Secretariat. From 2002 to 2019, he was an analyst III at Sebrae Nacional, where he held the roles of Access to Technology and Innovation Manager, Agribusiness Manager, Market Access Manager, Market Access and Financial Services Manager, CRAB Coordinator, Advisor to Board of Directors, analyst of the Entrepreneurial Culture Unit, in addition to participating as Advisor to the CDE of Sebrae PA, AC, RO, RJ and MG and as a representative of Sebrae in national and international Councils and Forums. He was also Minister of State for Science, Technology and Innovations - MCTI.

Marcelo Henrique Granza **Prof. Dr. in the Department of Industrial Maintenance Technology at the UTFPR**

Received the B.S. degree in electronic engineering, M.S. degree and Ph.D. degree in electric engineering from the Federal University of Technology of the Paraná - UTFPR. Currently, he is a professor in the Mechatronics Engineering program and the General Director of the Federal Technological University of Paraná, Guarapuava. He coordinates the research and innovation arrangement in Engineered Wood.



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Graciela Ines Bolzon De Muniz

Prof. Dr. in the Department of Forestry Engineering at the UFPR, currently holding the position of Vice-Rector at UFPR



Graduated in Forestry Engineering from the Argentina, has a master's degree and PhD in the area of Technology and use of forestry products from Federal University of Paraná - UFPR and a Post-Doctorate in Education from UNED (Spain). Full Professor at UFPR since 1994 and CNPq 1A productivity scholarship holder. She currently holds the position of Vice-Rector of the Institution, for the period 2020-2024 and 2016-2020. She was General Coordinator of Postgraduate Programs, General Coordinator of Research and Technological Development. In 2016 she received the title of Extraordinary Honorary Professor from the National University of Santiago del Estero-Argentina. Coordinator of the LCNano-Sisnano Nanotechnology Network (UFPR-MCTIC) since 2012. Works in research into technology and use of forest products, notably in the development, technology transfer and innovation of new high-quality wood products, with 12 registered patents. It also works in research and development in materials and nanocomposites, nanosensors and nanodevices in projects developed in partnerships with companies. With more than 100 master's and doctorate orientations, he has published more than 150 scientific articles in indexed journals in Brazil and abroad. Participates in nanotechnology research networks with an emphasis on nanocellulose.

Jorge Daniel De Melo Moura

Prof. Dr. in the Department of Architecture and Urbanism at the UEL



Associate Professor at the Londrina State University (UEL), a professor of the graduate (master and doctorate) program in Architecture and Urbanism at the Department of Architecture and Urbanism at the UEL. He is an evaluator of the Sinaes system of the Ministry of Education and Culture and the Higher Education evaluation system of the Paraná state. He is part of the body of evaluators for accreditation of undergraduate courses for Mercosul-Arcusur. He collaborates to the following American journals: Forest Products Journal, Journal of Materials in Civil Engineering, Structures Journal, BioResources as well as the Brazilian journals Ambiente Construído and Tecnologia e Gestão de Projetos. Ad hoc consultant for the Araucária Foundation for Scientific and Technological Support and Development of Paraná. He holds a degree in Architecture and Urbanism from the Federal University of Rio de Janeiro (1983), a master's degree in Architecture and Urbanism from the University of São Paulo (1989) and a PhD in Wood Sciences - from the École Nationale Supérieure des Technologies et Industries du Bois França - Université de Nancy I (1996), postdoctoral fellow at Forintek Canada Corp. (2002) today FP Innovations and at the Forest Products Laboratory-USA (2013). Guest professor at the École d'Architecture at Université Laval, Canada (2003). Guest professor at the École Nationale Supérieure d'Architecture de Saint Etienne - France (2017). His work is mostly in Architecture and Urbanism, with an emphasis on Wooden Construction, focusing mainly on the following topics: plantation wood, social housing, wooden constructions, construction systems, wooden constructions and structures, lignocellulosic materials.

Carlos Henrique Boscardin Nauiack

Technical Advisor at the Secretariat of SETI



Agronomist Engineer graduated from the Federal University of Paraná - UFPR in 2009, with a master's and doctoral degree in Forest Sciences from the Midwest State University - Unicentro, in Concentration Area: Sustainable Management of Forest Resources. From 2011 to 2018, served as a researcher and extensionist in the Binational project 'Strategies for Sustainable Forest Management in Small Rural Properties in the Central-Southern region of Paraná', under an agreement between Unicentro and the University of Applied Forest Sciences in Rottenburg (Germany). Since 2019, has been working as a technical advisor at the Secretary of Science, Technology, and Higher Education - SETI.



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Everton Hillig

Prof. Dr. in the Department of Forestry Engineering at the Unicentro

Graduate in Forest Engineering and Master (2000) from Santa Maria Federal University. Doctor in Forest Engineering from Paraná Federal University (2006); Post-doctorate from Madrid Polytechnic University (2016, Spain), research area Forest Products Technology and from Caxias do Sul University (2020), Brazil, research area Biomass Energy. Currently is Associate Professor at the Midwestern State University - Unicentro working in the undergraduate and postgraduate courses. Adviser of master's and doctoral students in the Forest Products Technology. He has experience in Forest Resources and Forestry Engineering, with emphasis on Forest Products Technology, working mainly on the following topics: wood panels, composites, wood characterization and wood quality, furniture and building production, wood residues and biomass energy. The main projects that currently participate are the wood characterization and wood products, of not traditionally species and fibers sources. Their works with wood and residues involve their multiple use, including their use as an building, furniture and energy source.

Ricardo Dias Silva

Prof. Dr. in the Department of Architecture and Urbanism at the UEM

Graduated at the Department of Architecture and Urbanism at Londrina State University in 1994 and got his M. Arch and PhD from Sao Paulo University. He has been an Associated Professor at Maringá State University - UEM since 2009 where he was the Head of the Department of Architecture and Urbanism, Director of the Technology Centre and vice-dean. Nowadays he is the coordinator for the 'Associated Program of Post-graduation in Architecture and Urbanism'. He is an advisor to the 'Fundação de Pesquisa do Estado de São Paulo' (Fapesp) and researcher at 'Laboratory for Research in Housing and Human Settlements'. In the past he investigated social housing and wooden architecture and in the last decades is dedicated to the investigation of wooden constructive systems and heritage in wood on the state of Paraná - Brazil.

Jorge Luis Monteiro De Matos

Prof. Dr. in the Department of Forestry Engineering at the UFPR

Holds a bachelor's degree in Forestry Engineering from the Federal University of Santa Maria (1982), a master's degree in Forestry Engineering (1988), and a Ph.D. in Forestry Engineering from the Federal University of Paraná - UFPR (1997). He completed his post-doctoral studies at the University of Georgia, USA (2011-2012), and subsequently at Oregon State University (2020-2021). He is a full professor at the UFPR, a collaborating professor at the National University of Misiones - Argentina, a collaborating professor at the National Agrarian University La Molina - Unalm, Peru. Works in Forest Resources and Forestry Engineering, with emphasis on non-destructive evaluation of wood and wood products properties and development of wooden structural and engineered elements. In his professional activities, he has collaborated with various partners in co-authoring scientific papers, with the most relevant topics related to the Amazon Tropical Forest, use of reforestation species and alternative species for generating products with higher added value, wood quality assessment, and wood structure use.