



NANOTECHNOLOGY INNOVATION CENTERS

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MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÕES



CHALLENGES

COMPANIES

- Mobilize companies and encourage their interest in developing innovative projects;
- Stimulate the development of **DISRUPTIVE** innovation projects.

INNOVATION
CULTURE

SisNANO LABORATORIES

- Empower laboratories in articulation with companies;
- Integrate more groups/researchers to the network;
- Disseminate the network among research groups;
- Mobilize researchers for innovation projects with the productive sector;
- Guide researchers on project budgeting.

ADVANTAGES OF THE PROGRAM



RESEARCHER

- Experience with the productive sector;
- Participation in strategic projects;
- Access to resources for maintenance, operation and development of laboratories;
- Human resources training;
- Establishing long-term partnerships with the productive sector;
- Possibility of leveraging resources through service provision;
- Opportunity to offer students a perspective of R, D & I activities outside of the academy.

ADVANTAGES OF THE PROGRAM



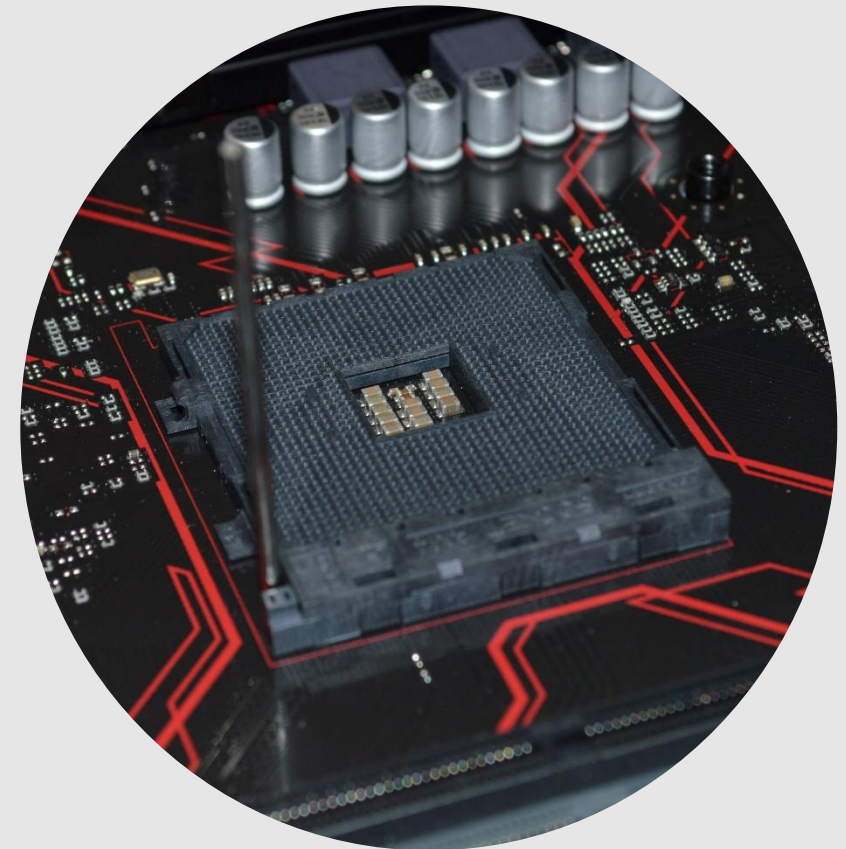
COMPANIES

- Access to the cutting-edge infrastructure of SisNANO laboratories;
- Collaboration with highly qualified researchers;
- Human resources training;
- Financial contribution to suit the size of the companies;
- Possibility to solve complex technological problems and “get ahead” in the market.

SIBRATECNANO NETWORKS

NANODEVICES AND NANOSENSORS

- Nanodevices and nanosensors are functional elements that have macroscopic characteristics arising from the properties of nanostructures and/or nanomaterials that compose them. They not only have components on the nano scale, but their physical/chemical characteristics give new properties to the systems that incorporate them.



SIBRATECNANO NETWORKS

NANOMATERIALS AND NANOCOMPOSITES

- Engineered nanomaterials or nanocomposites are materials that have at least one of their dimensions on the nanometric scale, although not exclusively between 1 to 100 nm, presenting optical, magnetic, electrical, dispersion, interaction, etc. unique properties that can be explored in the most diverse fields of applications such as electronics, health and medicine, energy, cosmetics, new materials, etc. Therefore, these materials must have a direct relationship of the properties derived from their size and the functionality of the application in question.



ACCREDITED NETWORK



Strategic Laboratories:

- CENANO – INT (Rio de Janeiro)
- LNNano – CNPEM (Campinas)
- LANANO – CETENE (Recife)
- CTI-NANO (Campinas)
- Laboratório Estratégico de Nanometrologia do Inmetro (Rio de Janeiro)
- LABNANO – CBPF (Rio de Janeiro)
- NuclearNano – CNEN (São Paulo)
- Laboratório Nacional de Nanotecnologia para o Agronegócio – Embrapa (São Carlos)

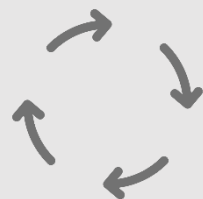
Associated Laboratories:

- SisNANO – USP (São Paulo)
- LINDEN– UFSC (Florianópolis)
- LSCN– IFAM (Manaus)
- Núcleo de Bionanomanufatura – IPT (São Paulo)
- Laboratório de Nanobiotecnologia para Estudos Pré-clínicos - Hospital Israelita Albert Einstein (São Paulo)
- LANANO – UFMG (Belo Horizonte)
- LCNANO – UFPR (Curitiba)
- Laboratório de Nanobiotecnologia – UFU (Uberlândia)
- CCS – Unicamp (Campinas)

HISTORIC

- Cycle 1 – 1st half of 2016 → 10 hired projects
- Cycle 2 – 2nd half of 2016 → 10 hired projects
- Cycle 3 – 2nd half of 2017 → 07 hired projects
- Cycle 4 – 1st half of 2018 → 07 hired projects

- Cycle 5 – 1st half of 2019 → 01 hired project
- Cycle 6 – 2nd half of 2019 → 05 hired projects
- Cycle 7 – 2nd half of 2020 → 03 hired projects
- Cycle 8 – 2nd half of 2020 → in progress



8

SUBMISSION
CYCLES



154

RECEIVED
PROPOSALS



43

HIRED
PROJECTS

24
NANOMAT

19
NANODEV

NETWORK RESULTS

Companies' Financial Contribution

R\$ 2,113,623.95

U\$ 413,366.18

R\$ 49,000/hired project
(about U\$ 9,600/hired project)

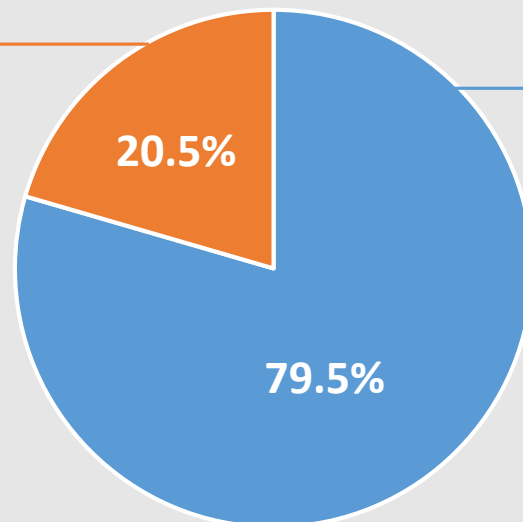
Size of the Companies

75%

micro and
small

25%

medium
and large



SibratecNano Financing

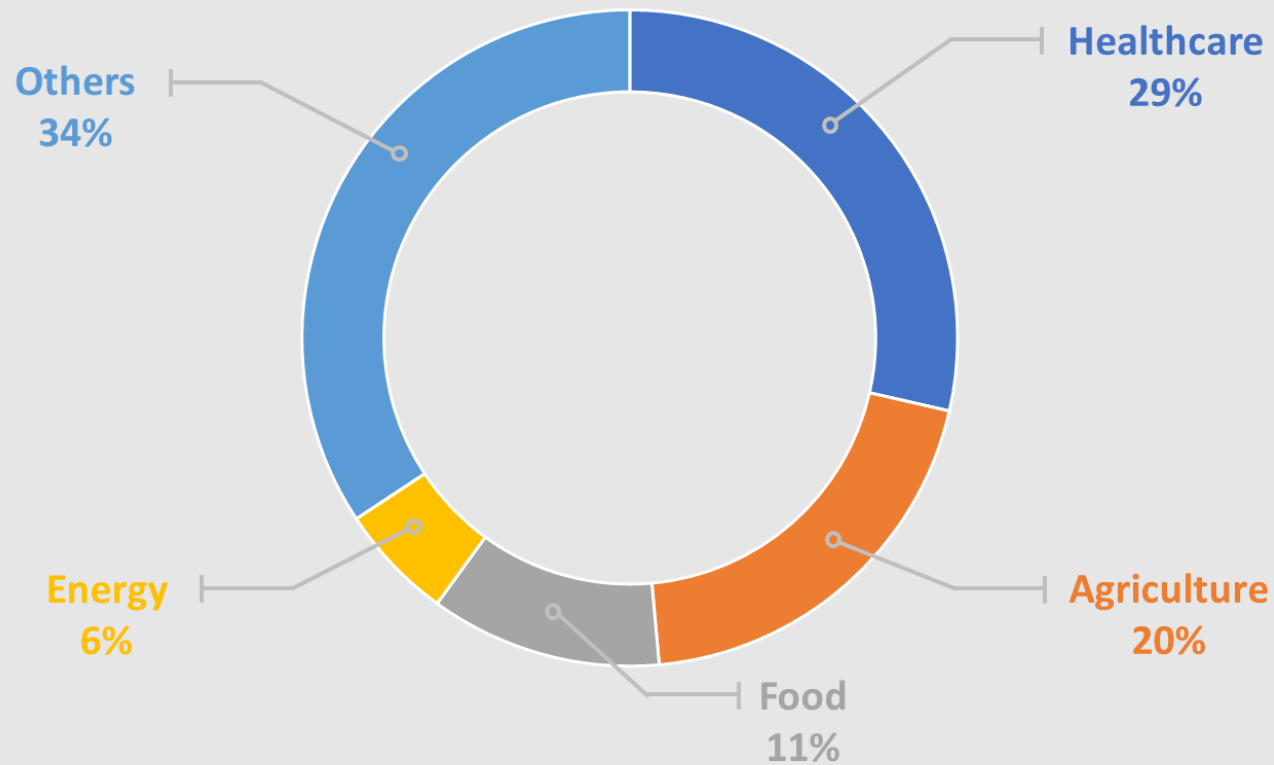
R\$ 10,314,791.64

U\$ 2,017,286.95

R\$ 240,000/hired project
(about U\$ 47,000/hired project)

- 13 IN EXECUTION
- 27 CONCLUDED
- 3 APPROVED IN 2020
- 41 COMPANIES

Industrial Sectors of the Projects



Amount Invested by Industrial Sector

