

## **Researcher position in Edmond and Lily Safra International Neuroscience Institute**

The Santos Dumont Institute (ISD) is a private non-profit Social Organization attached to the Brazilian Ministry of Education. The Institute is located in Macaíba, a city 25 km away from the capital of the State of Rio Grande do Norte, Natal, a city known for its touristic sights and urban beaches. ISD relies on an interdisciplinary approach, and offers a multidisciplinary residency program for rehabilitation of people with disabilities as well as a graduate program in Neuroengineering. ISD promotes education for life through science as a social development tool.

The institution is seeking **four enthusiastic, engaged and motivated researchers** to join our Neuroscience and Health interdisciplinary team. ISD seeks dynamic and flexible researchers to work in different fields of Neuroscience, Neuroengineering, Data and Health Science, with graduate, undergraduate, and high school students to transform the way study, research, and applied sciences are evolving to elucidate mechanisms of the nervous system.

### **Overview of Duties**

- Perform innovative interdisciplinary neuroscience and health research;
- Classroom and laboratory teaching activities;
- Mentor graduate and high school students;
- Mentor post-doctoral researcher;
- Publish the results in high-quality journals;
- Development of course and instructional materials;
- Participate in institutional committees and activities;
- Prepare application for external funding.



### Position requirements

- PhD degree related to neuroscience, health science, or data science, according to job position\*;
- Relevant experience in supervising students;
- Relevant experience in project funding;
- Collaborative;
- Publications related to neuroscience or health science;
- Present scientific information to a broad audience;
- Present ability to develop original, and independent research;

*Job position	Specific requirements
<b>Researcher to work with non-human primates</b>	Experience with marmoset neuroscience research  Experience with invasive electrophysiology  Experience with neurophysiological signal processing  Experience with behavior analysis  Experience with tissue processing
<b>Researcher to work with humans</b>	Experience with human neuroscience research, neurorehabilitation, assistive technology  Experience with electrophysiology, neuromodulation, human-machine interface  Experience with neurophysiological, kinematics, sensor signal processing



<b>Researcher to work with applied data science</b>	<p>Experience with data mining, machine learning, big data, deep learning</p> <p>Experience with Python</p> <p>Experience with multi-modality data processing</p> <p>Desirable experience with software and application development</p>
<b>Researcher to work with health sciences</b>	<p>Experience with translational neuroscience research, e.g. Parkinson, spinal cord injury, neurodevelopment</p> <p>Experience with neuroscience methodologies from bench to application</p> <p>Desirable experience with industry collaboration</p>

### Benefits

Health insurance, dental insurance, meal voucher, food voucher, and charter bus Natal-Macaíba-Natal

### How to apply

- Submit pdf documents to [selecao@isd.org.br](mailto:selecao@isd.org.br):
- Letter of intent – intention to work for ISD, why and how your skills fit ISD interdisciplinary research on neuroscience and health, and research plans according to ISD research program.
- Curriculum vitae - educational history, work experience, lab skills, soft skills, project leading, grants, publication, patent, mentoring, scientific divulgation, scientific meeting organization.



- Three confidential letters of recommendation must be sent by recommenders to [selecao@isd.org.br](mailto:selecao@isd.org.br). Letters of recommendation hold substantial weight in our decisions.

### **Selection process**

1<sup>st</sup> phase – Evaluate CV, letter of intent, letters of recommendation  
(eliminary step)

2<sup>nd</sup> phase – In person interview (in Macaíba) of suitability of the candidate for position. Seminar on a subject considering research plan, funding, facility, lab skills, problem solving, methods and originality. In-person activities with researchers, students, classroom, laboratory demo, and social.

### **Dates**

- 13/March/2022 – application deadline
- 17/March/2022 – list of candidates to 2<sup>nd</sup> phase
- 22/March/2022 - 2<sup>nd</sup> phase
- 04/April – list of approved candidate and admission

### **Term**

Full-time 40h/w, Monday to Friday 8:00 to 17:00.

Salary is commensurate with assistant professors in Brazil.

