

CALIBRE Research Centre

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Why in news?

Recently, NCBS and ICTS announce establishment of Centre for Artificial Learning and Intelligence for Biological Research and Education (CALIBRE).

- **CALIBRE** It will be an *interdisciplinary centre* dedicated to advancing the integration of Artificial Intelligence (AI) in biological research, education and innovation.
- Location Bengaluru, Karnataka.
- **Established jointly by** National Centre for Biological Sciences (NCBS) + International Centre for Theoretical Sciences (ICTS) both under the Tata Institute of Fundamental Research (TIFR).
- **Funding** It will be set up from Reed India Consulting LLP, a private company in India that provides financial consulting services.
- Primary objectives -
 - Establish state-of-the-art infrastructure to harness the power of AI to transform biology research.
 - Develop advanced AI tools for basic, applied, and translational biology research.
 - Employ neuromorphic, brain-inspired computing approaches to advance AI technology.
 - Provide education and training to young Indian researchers to apply AI tools in biological research.
 - Create named Chair Professorships and Research Travel Fellowships to support biology research.
- Areas of application It will cover a wide range of biological scales, from molecules to forest ecosystems, and apply AI to fields such as medicine, agriculture, public health, and ecology to provide science-based solutions.
- Focus The initiative focuses on "AI for Biology and Biology for AI,"

will serve as the **national hub** where biological insight meets AI innovation.

References

- 1. The Hindu | NCBS + ICTS announce CALIBRE
- 2. New Indian Express | Agreement signed, establish national AI centre
- 3. ICTS | CALIBRE

