

BRIEF IMPACT ASSESSMENT OF INTERSTATE STUDENT MOBILITY FOR HIGHER STUDIES
Enrolment of Students from More than 16 States
 At School of Nanoscience and Nanotechnology, Aryabhata Knowledge University, Patna, Bihar
 Interdisciplinary as well as multidisciplinary frontiers research at small Nanoscale

Research relevance and prospective societal value

The document identifies research activity in nanoelectronics, nano-fertilizers, nanomedicine, water-purification through Nanomaterials, semiconductors/LEDs and biomedical applications. These fields are prospectively relevant to agriculture, clean water, health, efficient devices, manufacturing and skilled employment.

Assessment period: Approximately 2013-2026

Academic leadership: Under the headship of Dr. Rakesh Kumar Singh

Institutional support: Dept. of Education, Govt. of Bihar and Aryabhata Knowledge University, Patna

Executive conclusion: The Centre has created a nationally connected platform for advanced nanoscience education in Bihar. The supplied record demonstrates broad student participation, interdisciplinary relevance and institutional visibility. Its next stage requires planned strengthening of faculty, technical manpower, laboratory operations, student outreach and partnerships.

84 student records reviewed	16+ States/UTs identifiable	12+ years of academic activity	M.Tech + Ph.D. advanced programmes represented
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Illustrative national reach in the supplied record

Institutional category	Representative feeder institutions recorded
Institutes of national importance	IIT Madras; MNNIT Allahabad; MNIT Jaipur; NIT Jamshedpur; NIT Agartala
Central / major public universities	Central University of South Bihar; BHU-linked institute; Jadavpur University; Anna University; Bangalore University
Technical universities	A.P.J. Abdul Kalam Technical University; Rajasthan Technical University; Punjab Technical University; VTU; BPUT
Private / deemed / industry-linked	BIT Mesra; VIT; SASTRA; KIIT; Amity; Galgotias; Sharda; Sathyabama; Smartway Electronics Pvt. Ltd.

Assessment distinction: the record demonstrates educational reach and capacity creation; research adoption, beneficiaries and economic value require separate verified data.

Purpose and evidence base

This brief converts the supplied student-origin record into an outcome-oriented assessment of talent attraction, advanced human-capital development, interdisciplinary capacity and institutional reputation.

BRIEF IMPACT ASSESSMENT OF INTERSTATE STUDENT MOBILITY FOR HIGHER STUDIES
Enrolment of Students from More than 16 States
At School of Nanoscience and Nanotechnology, Aryabhata Knowledge University, Patna, Bihar
Interdisciplinary as well as multidisciplinary frontiers research at small Nanoscale

Evidence notes: 84 student entries were reviewed. Spelling variants, repeated institutions and incomplete entries should be reconciled with AKU's official registers before final issuance.

✓ **Impact pathway**

1. **Institutional input:** establishment and continuing support by the Government of Bihar and AKU, combined with dedicated academic leadership of Dr. Rakesh Kr Singh.
2. **Direct output:** interdisciplinary M.Tech./Ph.D. opportunities, laboratory training and a multi-sector research portfolio.
3. **Observed outcome:** attraction of learners from Bihar and institutions across India, creating a national network around AKU.
4. **Strategic impact:** retention of talent, frontier skill creation and a pathway to technologies relevant to Bihar.

✓ **Principal findings**

5. **National talent attraction.** Entrants are linked to institutes of national importance, public and technical universities, private/deemed universities and industry. At least 16 States/Union Territories are identifiable.
6. **Advanced human-capital development.** M.Tech. and Ph.D. pathways expand access within Bihar to specialised education that otherwise often requires migration to other States.
7. **Interdisciplinary academic platform.** The Centre connects physics, chemistry, materials science, electronics, engineering, agriculture, health and environmental applications.
8. **Institutional reputation and public value.** National student origins and frontier applications strengthen AKU's teaching-research identity and Bihar's visibility in advanced science.

- ✓ **Leadership and institutional attribution:** The outcomes were developed under the sustained academic headship of Dr. Rakesh Kumar Singh as founder Teacher/ Prof. In charge-Establishment/Head/Academic-in charge of Nanoscience and Nanotechnology center from 2nd September 2013 and former Registrar & proctor of Aryabhata Knowledge university Patna, with institutional support from AKU and foundational support from the Dept. of Education Government of Bihar in spite of acute shortage of regular technical and teaching staff. They are presented as an institutional impact of AKU enabled by dedicated academic leadership and student participation.