



*International Memorandum
of Understanding (IMOU)*

*Colorado State University,
Fort Collins, Colorado USA
and*

*Indian Institute of Technology
Kharagpur
West Bengal, India*

Colorado
State
University



**International Memorandum of Understanding
Between Colorado State University
and Indian Institute of Technology Kharagpur**

In recognition of their mutual educational and scholarly interests, the Indian Institute of Technology Kharagpur (IITKGP), West Bengal, India and the Board of Governors of the Colorado State University System, acting by and through Colorado State University (CSU), Fort Collins, Colorado, 80523, U.S.A. propose to further their interests in accordance with this International Memorandum of Understanding (IMOU).

1. The purpose of this IMOU is to encourage voluntary interaction and cooperation and to promote friendship between the two parties for their mutual benefit.
2. IITKGP and CSU recognize the value of cooperative educational experiences that integrate theory and practice and promote the global perspectives and internationalization of our respective organizations.
3. IITKGP and CSU anticipate a close relationship in order to share the benefits of their respective institutional accomplishments, to discuss their different educational support frameworks, and to develop future areas of cooperation.
4. IITKGP and CSU may encourage faculty and students to pursue collaborative research that is jointly beneficial to their professional development and will lead to increased understanding between the parties and their respective countries.
5. IITKGP and CSU encourage and welcome the exchange of visiting faculty members and students. The purposes of such visits are to deliver lectures and seminars, to engage in collaborative research in areas of common interest, and to explore mutual projects and the means to support them.
6. Neither party is obligated to expend any monies or other resources in connection with this IMOU. Resources to implement any activity that result from this IMOU may come from either party, depending upon budgetary availability and approval. Specific projects or activities resulting from this IMOU may not be initiated without the prior written assurance of budgetary availability to the other party. To the extent external funding is required by either party for any purpose, and the funding for such purpose is not appropriated or otherwise made available, neither party will have financial obligations upon such determination.
7. The implementation of any cooperative research project or of any proposed visit shall be conditional upon both the availability of sufficient funding acceptable to each of the participants and the execution of a written agreement therefore signed by authorized officials of the participating organizations.
8. Dr. Arun Chakraborty, Associate Professor and Head, CORAL, IIT Kharagpur shall be the Coordinator from IIT Kharagpur and University Distinguished Professor V. Chandrasekar Shall are the Coordinator from Colorado State University. The participants and Coordinators may change from time to time as decided by appropriate authority of the respective institutions.

9. "Background Intellectual Property" means property and the legal right therein of a party or parties developed before or independently of any collaboration with IITKGP and CSU, including inventions, patent applications, patents, copyrights, trademarks, mask works, trade secrets and any information embodying proprietary data such as technical data and computer software.

This IMOU does not imply that any party hereto shall have the right to use Background Intellectual Property of another party without prior written consent. If the parties anticipate that their collaborative efforts may result in the use of Background Intellectual Property or the creation of new intellectual property, they will first enter into a separate agreement establishing their respective rights therein. Neither party obtains by this IMOU any right, title, or interest in, nor any right to reproduce nor to use for any purpose, the name, trade names, trade- or service marks, logos or copyrights of the other party without its prior, written consent.

10. Each party shall comply in all material respects with the applicable provisions of the laws and regulations of its home country governing the export of technical data, computer software, laboratory prototypes and other commodities, as well as arms and other import/export controlled activities and substances. The Designated Representative for each institution is responsible for working with their institution's administrative officials to identify procedures or licenses that must be in place to legally carry out the proposed work under the laws of the country in which the institution they represent resides. Each party's obligations under this Agreement shall be limited by its legal and regulatory obligations under the laws of its home country.

11. This agreement takes effect when signed by authorized representatives of the participating organizations. The agreement will continue in force and effect for a period of five (5) years from that date. Renewal of the agreement may be initiated at the end of each such five year period, and will require signatures by authorized officials of the participating organizations.

12. This agreement may be terminated at the request of either party by giving advance written notice of sixty (60) days.

Signatures:

**Indian Institute of Technology Kharagpur
West Bengal, India:**

By: Prof. Souvik Bhattacharyya

Date: January 04, 2016
Name: Prof. Souvik Bhattacharyya
Title: Deputy Director

**Board of Governors of the Colorado State
University System acting by and through
Colorado State University, Fort Collins,
Colorado USA:**

By: James A. Cooney

Date: Jan. 29 2016
Name: James A. Cooney, Ph.D.
Title: Vice Provost for International Affairs

Designated Representative:
Indian Institute of Technology Kharagpur

By: Arun Chakraborty
Date: 04/01/2016
Name: Arun Chakraborty
Title: Associate Professor / Head of the Centre
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Address: Kharagpur, West Bengal, India 721302
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Acknowledgements:
Indian Institute of Technology Kharagpur

By: Prof. Siddhartha Mukhopadkyay
Date: Jan 04, 2016
Name: Prof. Siddhartha Mukhopadkyay
Title: Dean AA and International Relations

Designated Representative:
Colorado State University

By: Chandra Jan 4, 2016
Date:
Name: V. Chandrasekar
Title: Associate Dean / University Distinguished Professor
Dept: Electrical and Computer Engineering
Address: 1373 Campus Delivery Fort Collins, CO 80523
Phone: +1 970 491 7981
E-mail: chandra@engr.colostate.edu

Acknowledgements:
Colorado State University

By: David McLean
Date: 27 Jan 2016
Name: David McLean
Title: Dean, College of Engineering

By: Tony Maciejewski
Date:
Name: Tony Maciejewski
Title: Department Head, Electrical and Computer Engineering

By: Chad Hoseth
Date: 2/8/16
Name: Chad Hoseth
Title: Director, International Initiatives
Office of International Programs

[Addendum A]

Statement of Interest

A summary of shared objectives, capabilities, and benefits supporting the partnership between Colorado State University located in Fort Collins, Colorado USA and Indian Institute of Technology Kharagpur, West Bengal, India

Preamble

Indian Institute of Technology Kharagpur (IITKGP) is a reputed institution of higher learning situated at Kharagpur, India, 721302.

Colorado State University (CSU) is one of the leading research universities in the United States located in Fort Collins, Colorado, USA.

IITKGP and CSU have agreed to pursue institutional collaboration in education and research. The primary objective is to promote interaction and collaboration between faculty, staff and students of the two institutions through visits and exchange programs, to explore joint academic and research programs, to collaborate on research conducted by doctoral and masters students, and to mutually assist in observational capacity building on a reciprocal basis. The relationship also aims at enhancing the technological, social and cultural relations of both countries/states/regions. This document presents a general framework for such a relationship. It also includes some specifically identified areas of cooperation, which may be updated from time to time.

Coordination

Prof. V. Chandrasekar shall be the Coordinator from CSU and **Prof. Arun Chakraborty** shall be the Coordinator from IITKGP. The participants and coordinators may change from time to time as decided by appropriate authority of the respective institutions.

Scope of Cooperation

The following areas of cooperation have been identified under this agreement.

- (i) **Faculty exchange program:** The two parties will explore opportunities for interaction among members of faculty as well as creating Visiting Faculty opportunities. Each such visit shall require approval of the respective institutions.
- (ii) **Student exchange program:** The two parties will explore opportunities for student exchange programs at the respective institutions. Visits under such programs may be for a short duration, such as summer/winter terms or short courses, or for a longer duration not exceeding two semesters. However, for visits exceeding two semesters separate approvals will be needed. This document does not address any academic credit related issues, and such issues must be approved by the appropriate academic bodies of the two institutions.
- (iii) **Joint research projects:** The two parties will explore opportunities to undertake joint research projects and may seek research funding from external funding agencies. Each such research proposal shall require approval of the respective institutions.

- (iv) Coordinated graduate degree program: Joint or collaborative Ph.D./Masters programs may be explored. A detailed document related to such programs will be required and approved by the corresponding authorities of both the institutions, before implementation.
- (v) Joint academic activities and events: IITKGP and CSU may formulate joint academic activities such as short course, seminars, workshops or conferences based on mutual interests and available expertise in both the institutions. They may also share and carry out joint research in technology for distance and computer-based learning.
- (vi) Technological capacity building: The two parties will further cooperate to exchange technological capabilities for advanced research across various disciplines. One potential area identified for such a co-operation is numerical weather prediction and weather radar facility development. In addition research activities related to electronics and communication, computer engineering as well as general areas of atmospheric and hydrologic sciences are covered here.

The areas of cooperation may be expanded or revised by mutual consent. However, specific programs may require additional annexures to this IMOU.

Background on Indian Institute of Technology Kharagpur

Indian Institute of Technology Kharagpur (IIT KGP) is one of the leading research universities in India. It is the foremost engineering Institute of National Importance in India, established in 1951. IIT KGP has the largest campus (1000 hectares), the most departments and the highest number of student enrolment. The institute equips 19 academic departments, 8 academic centers and 13 schools of excellence. In addition, there are also 15 dedicated innovative research laboratories. The academic consortium coordinates 72 Bachelors and 69 Masters Courses in science, technology, humanities, and law & business disciplines.

Background on Colorado State University

Colorado State University is one of the leading research universities in the United States with world-class research in fields including infectious disease, cancer research, atmospheric science, clean energy technologies, water resources, veterinary medicine, and environmental science. It was founded in 1870 as the Colorado Agricultural College, six years before the Colorado Territory became a state in the U.S.

Last year, CSU awarded degrees to more than 5,000 graduates, and this year, it attracted over \$300 million in research funding. Colorado State is a land-grant institution and a Carnegie Doctoral/Research University-Extensive.

Colorado State University is the “University of Choice” for Colorado residents – 30% of all of Colorado’s science, math, engineering and technology majors pursue degrees at CSU. In addition to its excellent programs in those areas, CSU offers among the very best professional programs in the United States in veterinary medicine, occupational therapy, journalism, and agriculture and construction management.