

PhD Admission – Teaching Assistantship through Project (TAP) Position – Spring 2026

Shailesh J. Mehta School of Management, IIT Bombay

Project Title: Applications of Technology and Innovation Management

Principal Investigator: Prof. Sawan Rathi, SJMSOM, IIT Bombay

Source of Funding: IRCC, IIT Bombay

Project description

This project explores how organizations or individuals can effectively manage technology and innovation to achieve sustainable competitive advantage, enhance societal impact, and foster inclusive growth. It focuses on understanding the mechanisms through which emerging technologies—such as artificial intelligence, digital platforms, biotechnology, and green technologies—transform industries, organizational structures, and innovation processes.

The research will combine theoretical and empirical inquiry to analyze how firms, sectors, and economies adapt to technological disruptions, manage R&D and innovation portfolios, and co-create value with stakeholders. Potential application areas include healthcare, manufacturing, digital services, sustainability transitions, and policy frameworks for innovation-driven growth.

Project aims

1. Examine key drivers and barriers influencing technology adoption and innovation diffusion across industries.
2. Develop conceptual and empirical models to explain how firms manage technological change, innovation ecosystems, and digital transformation.
3. Assess the impact of technology and innovation management practices on organizational performance, societal outcomes, and sustainability.
4. Generate actionable insights for managers, policymakers, and entrepreneurs to foster innovation capability and strategic renewal.
5. Contribute to theory-building in areas such as open innovation, digital transformation, and innovation governance.

Candidate capabilities

The candidate must fulfil the PhD eligibility criteria of SJMSOM and IIT Bombay. In addition, an ideal candidate should possess the following skills:

1. A strong academic background in management, economics, engineering, or related disciplines.
2. Interest in research on innovation, digital transformation, and technology strategy.
3. Quantitative and/or qualitative research skills, such as econometrics, case study analysis, survey design, or text/data analytics.
4. Ability to work independently and collaboratively in an interdisciplinary environment.
5. Strong written and analytical communication skills.
6. Familiarity with research tools (e.g., Stata, R, or Python) will be an advantage

The candidate will have to go through the regular PhD admission process at SJMSOM, IIT Bombay.