

Emerging roles in risk, finance, and technology: What students must learn today?

WILLIAM MAY

If you're a student or just starting your career, you may be wondering where the strongest long-term opportunities will be in the coming years. One area that's becoming increasingly relevant is risk management. Hiring trends show strong momentum, with risk-specific roles among the fastest-growing in India and ranked among the top 25 job roles in LinkedIn's 2026 job trends report. What's more, demand for risk professionals is rising not only in traditional financial services, but also across emerging and fast-evolving sectors such as artificial intelligence (AI), sustainability, technology, and consulting. This broad-based demand highlights how risk management has moved from being a niche function to a core business capability.

This growth reflects the way business itself is changing. Market volatility, evolving regulations, climate-related disruptions, and the rapid adoption of artificial intelligence are reshaping how organizations make decisions—both in daily operations and long-term strategic planning. As a result, risk considerations now influence lending decisions, investment strategies, technology adoption, and enterprise-wide planning. Risk management has also become central to how



companies protect their assets, ensure regulatory compliance, and identify opportunities for sustainable growth. Together, these shifts are opening new and diverse career pathways in India and globally, offering students and early professionals meaningful opportunities for long-term professional success.

Opportunities across finance, AI, and sustainability

Financial innovation, digital lending platforms, and advanced technologies continue to increase exposure to financial, operational, technological, and sustainability-related risks. This environment is creating steady demand for pro-

fessionals who can assess risk, interpret data, and support decision-making across different functions within an organization. For instance, credit risk teams play a critical role in evaluating the financial strength of borrowers and counterparties in faster, more data-driven lending environments. Their work helps institutions manage defaults while expanding access to credit.

Market risk professionals, meanwhile, focus on how changes in interest rates, equity markets, foreign exchange movements, and commodity prices impact trading activities and investment portfolios. Their analysis supports institutions in managing vol-

atility and protecting capital. Liquidity, operational, and model risk teams ensure that organizations can meet financial obligations during periods of stress and that internal models, systems, and processes function as intended. Together, these roles form the backbone of modern financial risk management.

The wider use of AI and digital infrastructure has introduced additional challenges that go beyond traditional financial risk. Issues such as model bias, data quality, system transparency, cybersecurity threats, and data privacy concerns are becoming increasingly important. These risks have driven demand for profession-



als who can oversee responsible technology use, strengthen governance frameworks, and ensure compliance with emerging regulations. At the same time, climate change and sustainability pressures are influencing asset values, credit decisions, insurance models, and long-term corporate strategy. As a result, organizations are seeking risk professionals who can connect climate and environmental, social, and governance (ESG) data with financial analysis to support resilience and long-term value creation.

Emerging risk specializations and skills in demand

Employers are increas-

ingly focusing on specialized risk roles across finance, AI and data analytics, cybersecurity risk management, ESG and sustainability risk, and regulatory compliance. These areas reflect the growing complexity of global financial systems, digital platforms, and regulatory expectations. Roles such as credit risk analyst, operational risk manager, cybersecurity risk specialist, ESG risk analyst, and compliance specialist continue to see strong and sustained demand across industries.

At the same time, organizations are looking for professionals who combine technical expertise with practical, real-world skills. This includes the

ability to work with data and quantitative models, familiarity with regulatory frameworks, digital and AI literacy, awareness of cybersecurity risks, and the capability to communicate risk clearly to diverse stakeholders. Strong communication skills are particularly important, as risk professionals often need to translate complex analysis into actionable insights for senior management and business teams. Together, these capabilities support informed decision-making in fast-moving financial markets and evolving business environments.

Preparing for risk careers in a changing job market

For students and early

professionals, entry-level risk-related careers can offer both stability and attractive base salary potential relative to other sectors, depending on skills, location, and the organization. Over time, as professionals gain experience and develop specialized expertise, they can progress into higher-earning risk specialist or leadership roles, where annual total compensation can be significantly higher.

To build a strong foundation, students can consider pursuing dedicated, globally recognized certification and certificate programmes in risk management across areas such as finance, sustainability, and AI. These programmes help develop essential analytical, technical, and governance-related skills that are increasingly valued by employers. They are relevant across banking, asset management, consulting, technology firms, and real-economy organizations focused on navigating financial markets, sustainability challenges, and the growing use of Generative AI. By investing early in these skills, students can position themselves strongly for the evolving world of work and long-term career growth in risk management.

(The author is Managing Director, Global Head of Certifications and Educational Programs)

Students showcase next-gen space & robotics innovations

MIT inaugurated the International Rover Challenge (IRC) 2026 and the International Space Drone Challenge (ISDC) 2026. The events are being organised in collaboration with the Space Robotics Society (SPROS) and have drawn participation from young innovators across India and overseas.

The inauguration marked the beginning of a global convergence of student-led teams showcasing technological innovation, scientific curiosity, and collaborative problem-solving in the fields of space robotics and aerial systems. This year's editions feature 33 national and international rover teams and 22 drone teams, underscoring the growing global footprint of the two competitions.

Lt. Gen. (Dr.) M. D. Venkatesh, VSM (Retd.), Vice Chancellor of MAHE, presided over the ceremony as Chief Guest. Welcoming participants, he highlighted that platforms such as IRC and ISDC reflect MAHE's



philosophy of experiential learning, where classroom knowledge is translated into real-world engineering solutions.

He noted that such competitions foster perseverance, confidence, and innovation, while also contributing to technological advancement, nation-building, and economic growth.

Cdr. (Dr.) Anil Rana, Director, MIT, emphasised the vibrant culture of innovation on campus and reiterated the institute's commitment to holistic education beyond academ-

ics. He highlighted MIT's strong ecosystem of student engagement through 26 major project teams and over 70 technical and cultural clubs, along with experiential initiatives that build resilience and adaptability among students.

The event also acknowledged Sagar Dhaka, MIT alumnus (EEE, Class of 2019) and Founder of SPROS, for his leadership and continued association with his alma mater in promoting global student innovation in robotics and aerospace technologies.

Celebrating healers, leaders, and changemakers



National Women Physicians Day 2026 is a moment to recognise and celebrate the extraordinary contributions of women doctors who serve at the healthcare systems worldwide. Observed on February 3, the birthday of Dr. Elizabeth Blackwell—the first woman to receive a medical degree in the United States—this day honors both the pioneers who broke barriers and the present-day physicians who continue to redefine medicine through skill, compassion, and leadership. Women physicians play a vital role across every specialty, from primary care and pediatrics to surgery, research, public health, and medical education. Beyond clinical excellence, they are often at the

forefront of patient advocacy, community health initiatives, and innovation. Their work has been especially visible in recent years, as women doctors have led responses to public health crises, advanced medical research, and championed equitable access to care.

Despite these achievements, women physicians continue to face challenges, including gender bias, pay gaps, underrepresentation in leadership, and the pressure of balancing demanding careers with personal responsibilities. National Women Physicians Day is not only a celebration, but also a reminder of the need for continued progress toward equity, inclusion, and supportive work environments within healthcare.

Scientists develop single-unit device to capture, save solar energy

NEW DELHI

Indian scientists at the Department of Science and Technology (DST) have developed a solar-powered energy storage device that can both capture and store energy in a single unit, marking a major step towards clean, self-sustaining storage systems, an official statement said.

Unlike conventional solar systems that require separate units for energy harvesting and storage, the new technology can do both functions, reducing cost and energy losses during conversion, it said.

The statement from the Ministry of Science and Technology said the device known as photo-rechargeable supercapacitor was developed by researchers at the Centre for Nano and Soft Matter Sciences, Bengaluru under DST.

The new technology paves way for efficient, low cost, and eco-friendly power solutions for portable, wearable, and off-grid technologies, it said.

Conventional hybrid systems relied on additional power management electronics to regulate voltage and current



mismatches between the energy harvester and the storage unit.

The resultant system complexity and device footprint was detrimental for miniaturised and autonomous devices, the statement said. The innovation used the help of binder-free use of nickel-cobalt oxide (NiCo2O4) nanowires, which have been uniformly grown on nickel foam using a simple in situ hydrothermal process.

"These nanowires, only a few nanometres in diameter and several micrometres long, form a highly porous and conductive 3D network that efficiently absorbs sunlight and stores electrical charge. This unique architecture allowed the material to act simultaneously as a solar energy harvester and a supercapacitor elec-

trode," the statement detailed.

When tested for real-world applications, the device delivered a stable output voltage of 1.2 volts, maintained 88 per cent of its capacitance retention even after 1,000 photo-charging cycles.

Further, it operated efficiently under varying sunlight conditions—from low indoor illumination to intense sunlight. This stability indicates that the nanowire structure can endure both mechanical and electrochemical stress over extended periods of use, the statement noted.

The self-charging power system can function anywhere even in remote regions without access to an electrical grid and can substantially reduce dependence on fossil fuels and conventional batteries.

Nasr School hosts farewell for ISC batch

HYDERABAD

Nasr School hosted a farewell ceremony for the outgoing students of Classes X and XII of the ISC Batch of 2025–2026, celebrating the completion of an important chapter in their academic journey. The evening was a graceful blend of tradition, talent, emotion, and togetherness, reflecting the core values of the institution.

The programme began with a vibrant welcome that set an upbeat tone for the celebrations. One of the most awaited highlights was the Ramp Walk, where students from both classes took to the stage with remarkable confidence and elegance. Showcasing individuality, charm, and poise, the participants impressed the audience as the event progressed through multiple rounds. The final

round featured a Question-and-Answer segment, testing the finalists' clarity of thought, articulation, and presence of mind.

The event was judged by distinguished guests from the creative field. Lucky Lakshmi Naidu—model, actress, journalist, and NCC achiever—and Madhuri Atluri, renowned designer and Mrs. Hyderabad 2019, brought valuable insights and inspi-

ration through their experience and achievements. As a gesture of appreciation and sustainability, the guests were welcomed with saplings.

The cultural segment added colour and energy to the evening, with captivating dance performances and melodious songs presented by students of Classes IX and XI. A soulful trumpet performance and an energetic flash mob further elevated

the atmosphere, followed by a lively DJ session that allowed students to celebrate and create lasting memories.

The declaration of titles, recognising students for their confidence, stage presence, and unique personalities.

Principal Mir Mohiuddin Mohammed announced the winners and addressed the gathering, extending his blessings and best wishes to the outgoing batch.

