

FutureProofed: How technology and abundance are reshaping work, education, and economic life

The future of work arrived this week with stark clarity. Major research released between November 19-26, 2025 confirms that AI can now automate **57% of U.S. work hours** according to McKinsey, [\(Robotics & Automation News\)](#) while already replacing tasks representing **\$1.2 trillion in wages** per MIT's new Iceberg Index. [\(CNBC\)](#) Yet the story isn't mass displacement—it's transformation. The World Economic Forum projects a net gain of **78 million jobs** by 2030, even as 92 million roles disappear. [\(World Economic Forum\)](#) This tension defines our moment: technology creates abundance while demanding adaptation at unprecedented speed. Meanwhile, clean energy met all new global electricity demand for the first time in 2025, costs continue falling, and policymakers from the EU to the G20 scramble to govern AI's workplace impacts. The future isn't approaching—it's being negotiated now, in real time.

AI reshapes labor with augmentation outpacing displacement—for now

The McKinsey Global Institute's landmark "Agents, Robots, and Us" report, released November 25-26, quantifies AI's transformative potential: AI agents could perform tasks occupying **44% of U.S. work hours**, while robotics handles another **13%**. [\(Robotics & Automation News\)](#) But McKinsey frames this as partnership, not replacement. The report emphasizes that **70% of skills** sought in automatable roles also apply to non-automatable work, suggesting most workers can transition rather than exit. [\(Fortune\)](#)

MIT's complementary "Iceberg Index," unveiled November 26, provides granular local data showing AI can already replace **11.7% of the U.S. workforce** in finance, healthcare, and professional services. [\(CNBC\)](#) States including Tennessee, Utah, and North Carolina are already using this tool for workforce planning, [\(CNBC\)](#) representing a shift from reactive layoffs to proactive preparation.

The labor market itself reflects this transition economy. Indeed's Hiring Lab describes a "**low-hire, low-fire**" environment [\(hiringlab\)](#) where job postings sit 3.4% above pre-pandemic levels [\(Indeed Hiring Lab\)](#) but tech positions remain 30% below. [\(hiringlab\)](#) Healthcare accounts for a remarkable **47.5% of all job growth** in 2025, [\(Indeed Hiring Lab\)](#) serving as an employment anchor while other sectors restructure. Wage growth has slowed to 2.5% year-over-year—below inflation—[\(hiringlab\)](#) signaling worker bargaining power has weakened despite low unemployment.

The human cost is real but concentrated. November 2025 saw **4,505 tech layoffs**, [\(TechCrunch\)](#) continuing a year that exceeded **118,000 cuts** at U.S. tech companies. [\(Crunchbase News\)](#) HP announced 4,000-6,000 job reductions through 2028 while "ramping up AI efforts." [\(CNN\)](#) IBM replaced 8,000 HR employees with its AskHR chatbot. [\(FinalRoundAI\)](#) Yet PwC's 2025 Global AI Jobs Barometer finds wages rising **twice as fast** in AI-exposed industries, with a **25% wage premium** for workers possessing AI skills versus those without. [\(PwC\)](#)

The skill most in demand? "AI fluency" has grown **7x in two years**, [\(Fortune\)](#) rising from 1 million to 7 million job seekers requiring this capability—making it the fastest-growing skill in U.S. job postings.

[\(Robotics & Automation News\)](#)

Education systems race to build AI-literate generations

A Harvard Business School conference on November 25 delivered a striking finding: **over 70% of employers** would now rather hire someone with less experience who understands AI than someone with more experience who doesn't. (harvard) (Harvard Gazette) Google's Lisa Gevelber announced free AI training access for all U.S. community colleges in response, recognizing that affordable institutions serve as the gateway for most workers entering AI-transformed industries.

Student adoption has outpaced institutional preparation. According to Nature, **92% of university students** now use AI tools (up from 66% in 2024), with **88% using generative AI specifically for assessments.** (DemandSage) The average student employs 2.1 AI tools per course. (DemandSage) This creates what HBS faculty co-director Joseph Fuller calls a looming "new digital divide"—not between those with and without internet access, but between those with and without AI literacy. (harvard)

The credentialing landscape is evolving rapidly in response. Coursera reports that **90% of employers** now offer higher starting salaries for candidates with micro-credentials, typically **10-15% more** for credit-bearing credentials. (Coursera) GenAI credentials command even higher premiums, with enrollments doubling from 2024 to 2025—12 people per minute now sign up for GenAI content. (Lumina Foundation)

Corporate investment in reskilling has accelerated. Amazon's "Future Ready 2030" initiative commits **\$2.5 billion** to prepare 50 million people for future work, having already upskilled (Amazon) 700,000 employees globally since 2019. (Amazon) NTT DATA won industry awards for its GenAI Academy spanning 70+ countries. (NTT DATA) Yet the TechEquity Collaborative's November 19 report warns these programs are "rarely designed based on what workers want," lacking transparency on outcomes and worker input in design. (Techequity)

Government funding is following private investment. The U.S. Department of Education announced FIPSE grant priorities specifically targeting artificial intelligence and short-term training programs, with awards ranging from \$7 million to \$60 million. (Inside Higher Ed) The UK launched AI-powered school attendance improvement targets, using data analytics to set individualized benchmarks for every school. (GOV.UK)

Clean energy delivers abundance economics in practice

The abstract promise of technology-driven abundance became concrete this quarter. Ember's November 13 analysis revealed that **solar and wind met 100% of new global electricity demand** in 2025's first three quarters—a historic first. Solar generation surged **498 TWh (+31%)**, having already exceeded total 2024 output. (Ember) Fossil fuel generation stagnated for the first time since the pandemic, with China's fossil generation falling 52 TWh. (Ember)

Investment is accelerating the trend. IRENA reported **\$554 billion invested in solar** in 2024 alone—a 49% increase from the 2022-2023 average. (pv magazine) Research suggests current 2050 cost forecasts for solar remain "far too high," with half of predicted 2050 costs already achieved. (pv magazine) Advanced tandem solar cells could reduce costs from \$50/MWh to **\$17/MWh**, fundamentally altering energy economics. (pv magazine)

The "abundance movement" gained political traction at a November 2025 Washington conference drawing 700 attendees from 15 organizations across partisan lines. Representatives Richie Torres (D-NY) and Celeste Maloy

(R-UT) participated in the Build America Caucus, though both noted they avoid the term "abundance" in their districts—[American Enterprise Institute](#) suggesting it works better as policy framework than electoral message.

Brookings offered a crucial critique: the abundance agenda must extend beyond booming metros to **50 million Americans in distressed labor markets**. Simply assuming workers can migrate to opportunity ignores place-based economic needs. Meanwhile, billionaire proposals proliferate—Vinod Khosla suggests the government acquire 10% stakes in public corporations for redistribution, [CryptoRank.io](#) while Ray Dalio warns AI will benefit the top 1-10% vastly more than others without policy intervention. [Fortune](#)

EU simplifies AI rules as G20 coordinates global governance

The European Commission published its "Digital Omnibus on AI" on November 19, responding to complaints from 40+ European CEOs including ASML, Siemens, and Mistral AI. The package extends compliance deadlines by up to 16 months, expands SME protections, and centralizes enforcement under the AI Office. Brussels estimates **€5 billion** in administrative savings by 2029. The proposal now faces Parliament and Council negotiations.

The G20 Johannesburg Summit (November 22-23)—the first on African soil—produced significant AI governance outcomes. [Vajiram & Ravi](#) Leaders reaffirmed principles of transparency, fairness, and human oversight while launching the "AI for Africa Initiative" to expand computing access, training, and representative datasets across the continent. [TechCabal](#) India's Prime Minister Modi proposed "human-centric" rather than "finance-centric" AI governance and announced an AI Impact Summit for February 2026. [Analytics India Magazine](#)

In the United States, the Department of Labor unveiled workforce components of the Trump Administration's AI Action Plan on November 24. An "AI Workforce Hub" will launch in January 2026 to collect labor market data and pilot retraining models. [DOL](#) Deputy Secretary Keith Sonderling framed the approach around "workforce agility" rather than preventing job loss, positioning "the speed of change itself" as the primary challenge. [DOL](#)

California continues leading state-level regulation. Employment discrimination rules for AI systems took effect October 1, clarifying that algorithmic tools violate civil rights law if they harm applicants based on protected characteristics. Separately, Governor Newsom signed AB 1340 in October, granting Uber and Lyft drivers rights to organize and bargain collectively—effective January 2026.

Case studies reveal transformation in action

Paramount-Skydance's \$185 million exodus illustrates how return-to-office mandates function as de facto restructuring. When the merged company announced a five-day in-office requirement, **600 employees** took buyouts rather than comply. [International Business Times](#) Combined with 1,000 layoffs and 1,600 more expected, the company is reducing headcount 10%. [Variety](#) A BambooHR survey found 25% of C-suite executives hoped RTO mandates would drive voluntary departures—" [International Business Times](#) backdoor layoffs" requiring no severance negotiation.

China's 200-million-person gig economy reveals alternative labor futures. Approximately **40% of urban Chinese workers** now operate in gig arrangements, essential to the government's tech-driven growth strategy.

[Bloomberg](#) The bestselling memoir "I Deliver Parcels in Beijing" by Hu Anyan captured public attention by humanizing precarious platform work. Meanwhile, the International Labour Organization is negotiating the first global rules for digital platform work, with final talks scheduled for 2026. [Human Rights Watch](#)

Tennessee's AI Workforce Action Plan demonstrates proactive state governance. Using MIT's Iceberg Index, the state mapped county-level automation exposure and developed targeted reskilling interventions before displacement occurs. [CNBC](#) Utah and North Carolina are developing similar approaches, [CNBC](#) potentially establishing a model for localized AI adaptation policy.

The Mobley v. Workday case may reshape vendor liability for AI hiring. In May 2025, a federal judge granted preliminary collective certification against Workday, ruling the company was "sufficiently involved in the hiring process" for discrimination claims—potentially shifting liability from employers using biased tools to the AI vendors creating them. With **98.4% of Fortune 500 companies** leveraging AI in hiring, the precedent could transform the market. [Brookings](#)

Inequality, access, and resistance create adoption barriers

Research from Brookings and academic institutions on leading AI models (GPT-4o, Claude, Llama, Gemini) reveals systematic hiring bias. A study of **361,000 fictitious resumes** found models favor female candidates while disadvantaging Black male applicants—with biases operating intersectionally. Current anti-discrimination frameworks treating race and gender separately prove inadequate for AI-era bias patterns.

The digital divide persists as a foundational barrier. The National Association of Counties reports **65% of U.S. counties** experience internet below FCC minimum standards, rising to **77% in rural counties**.

[National Association of Counties](#) The \$42.5 billion BEAD broadband program [Wesco](#) faces criticism—one industry CEO claimed it "set back broadband in America by several years" through regulatory complexity. The Information Technology and Innovation Foundation urged addressing affordability barriers beyond deployment alone.

Reskilling programs show uneven effectiveness. Brookings found training participation varies from **14% to 96%** across states, [Brookings](#) with many workers unable or unwilling to bear retraining costs. Programs often train workers "from one automation-susceptible occupation to another," failing to anticipate future labor demand. [Brookings](#) Northeastern University research found bipartisan public support for government-backed retraining, [Northeastern Global News](#) but the TUC's proposed AI workplace bill—including rights to human review of AI decisions and bans on emotion recognition—remains unenacted in the UK. [Linklaters](#)

Entry-level workers face disproportionate pressure. Unemployment among **20-30 year olds in tech** rose approximately 3 percentage points since early 2025. [Goldman Sachs](#) Remote work opportunities skew toward senior roles: **30% of senior positions** offer hybrid arrangements versus just **18% for entry-level**. [Robert Half](#) Young workers simultaneously face AI competition for tasks traditionally used to build experience while having fewer options for flexible work.

Adaptation velocity becomes the defining variable

The path forward requires matching institutional adaptation speed to technological change. Federal Reserve data

shows generative AI adoption reached **54.6% of U.S. adults** within three years—exceeding PC adoption in 1984 (19.7%) and internet adoption in 1998 (30.1%). [stlouisfed](#) Time savings equivalent to **1.6% of all work hours** translate to approximately **1.3% productivity gains** economy-wide since ChatGPT's introduction.

[stlouisfed](#)

For individuals, the data suggests prioritizing AI fluency over domain-specific skills likely to be automated. The 7x growth in AI skill demand, combined with 25% wage premiums for AI-capable workers, makes this investment high-return. Micro-credentials offer accessible entry points, with Coursera alone serving 175 million learners. [DemandSage](#)

Organizations should anticipate workforce composition shifts rather than across-the-board reductions. The CNBC Workforce Executive Council survey found **89% of senior HR leaders** expect AI to reshape jobs in 2026, but reductions stem from cost-cutting pressures rather than AI efficiency gains. [CNBC](#) Workers using AI save an average **7.5 hours weekly** according to London School of Economics research—[CNBC](#) suggesting augmentation strategies may outperform replacement approaches.

Policymakers face tension between innovation speed and governance capacity. The EU's decision to extend AI Act compliance timelines acknowledges that rushed implementation risks both business competitiveness and regulatory effectiveness. State-level experimentation in Tennessee, California, and elsewhere may yield models federal policy eventually adopts. The G20's coordination on AI principles, however imperfect, maintains multilateral channels essential for governing technology that ignores borders.

The abundance economy remains more promise than reality for most workers, but the trendlines point toward genuine transformation. Solar and wind now meet new electricity demand growth. AI productivity gains compound annually. The question isn't whether technology creates abundance—it's whether institutions adapt quickly enough to distribute its benefits broadly, or whether the gains concentrate while adjustment costs fall on those least equipped to bear them.