

# 2025 Tech & Science Forecast: Quantum Leaps, AI Dominance, and Biotech's

Scientific Discoveries · Answer Key · 10 Questions

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**1. Which emerging technology is projected to create substantial economic value, estimated between \$450 billion and \$850 billion by 2040, despite current limitations in commercial applications?**

- A) Artificial Intelligence
- B) Quantum Computing**
- C) Nanotechnology
- D) Synthetic Biology

**2. What is the projected market value for the global biotechnology market by 2034, indicating significant growth potential?**

- A) Approximately \$1.55 trillion
- B) Approximately \$4.61 trillion**
- C) Approximately \$3.88 trillion
- D) Approximately \$521.02 billion

**3. According to recent reports, what was the estimated total economic impact of the U.S. bioscience industry in 2023, measured by overall output?**

- A) \$3.2 trillion**
- B) \$2.3 million
- C) \$3.88 trillion
- D) \$1.55 trillion

**4. Which scientific breakthrough is expected to reach the market in 2026, offering improved power conversion efficiencies over existing silicon-based panels?**

- A) Alternative battery technologies
- B) Perovskite-silicon solar cells**
- C) Cell-free biomanufacturing
- D) CRISPR-edited agriculture

**5. What is the projected growth rate for the global nanotechnology market, with a CAGR of 34.7% from 2024 to 2032?**

- A) USD 6,838.11 million
- B) USD 74,110.01 million**
- C) USD 34.7 billion
- D) USD 118.7 billion

**6. Which sector is expected to drive significant growth in the global space economy, with projections reaching \$1.8 trillion by 2035, driven by advancements in communication, navigation, and Earth observation services?**

- A) Government space budgets
- B) Commercial space products and services**
- C) Space infrastructure development
- D) International government partnerships

**7. Between 2015 and 2023, global venture capital investments in AI start-ups tripled. Which specific area of AI saw a substantial increase in investment from 1% in 2022 to 18.2% in 2023?**

- A) Robotics
- B) Natural Language Processing
- C) Generative AI**
- D) Computer Vision

**8. What is the projected compound annual growth rate for the global synthetic biology market from 2024 to 2030?**

- A) 18.53%
- B) 28.43%
- C) 20.6%**
- D) 15.70%

**9. In terms of renewable energy, what milestone is projected to be reached in 2025, where renewables-based electricity generation will overtake coal-fired generation?**

- A) Solar PV surpasses wind power generation
- B) Renewables surpass hydropower generation
- C) Renewables-based electricity generation surpasses coal-fired**
- D) Wind and solar power generation surpass nuclear

**10. Which nation is noted for having an extraordinary innovation efficiency in biotechnology during the 2018-2023 period, despite the United States dominating the overall innovation infrastructure?**

- A) Germany
- B) Switzerland**
- C) Japan
- D) Canada