



# What valuation methods suit pre-revenue deep-tech startups

The most suitable valuation methods for pre-revenue deep-tech startups are those that focus on qualitative factors, technology maturity, and potential market impact rather than financial metrics. Investors and founders typically use a combination of these approaches to arrive at a credible valuation estimate. <sup>[1]</sup> <sup>[2]</sup> <sup>[3]</sup> <sup>[4]</sup>

## Key Methods for Valuing Pre-Revenue Deep-Tech Startups

- **Technology Readiness Level (TRL) Framework:**

By mapping the startup's maturity against industry-standard TRLs, investors gauge development progress, risk, and future commercial potential. Each stage of advancement carries a different risk and value multiplier, making TRL especially relevant for deep-tech where technical validation is crucial. <sup>[4]</sup> <sup>[1]</sup>

- **Berkus Method:**

Assigns monetary value to five key factors—sound idea, prototype, management team quality, strategic relationships, and product rollout—with caps for each, resulting in a structured, qualitative valuation (often up to \$2–2.5 million). <sup>[2]</sup> <sup>[5]</sup> <sup>[6]</sup>

- **Scorecard Valuation Method:**

Benchmarks the startup against comparable ventures in the same sector, adjusting the average sector valuation based on strengths of team, market size, product/tech, and more. <sup>[5]</sup> <sup>[7]</sup> <sup>[2]</sup>

- **Risk Factor Summation Method:**

Assesses various risk factors—technology, market, management, funding, competition—and factors them into the valuation. <sup>[5]</sup>

- **Venture Capital (VC) Method:**

Calculates the target exit value based on the future market, technological success probability, and anticipated commercial adoption, then works backward to determine pre-money valuation. <sup>[2]</sup> <sup>[4]</sup> <sup>[5]</sup>

- **Real Options and Predictive Tech Modeling:**

Treats investment rounds as options with flexible timelines and uses algorithms to estimate market trajectory, regulatory success, and IP defensibility. <sup>[4]</sup>

- **Discounted Cash Flow (DCF):**

Projects future cash flows far ahead and discounts them to present value with sensitivity analysis and higher risk weights; often paired with qualitative methods for deep-tech. <sup>[8]</sup> <sup>[9]</sup> <sup>[10]</sup>

## Practical Considerations

- Most investors use several methods and triangulate a valuation range, relying heavily on expert judgment, technical milestones, and comparables.<sup>[3] [4] [5]</sup>
- Deep-tech startups may also benefit from using scenario analysis, team and technology scoring, and customized frameworks that reflect their unique commercialization timeline and risk landscape.<sup>[8] [4]</sup>
- Direct financial metrics (revenue multiples, EBITDA) are generally not reliable at this stage, so qualitative indicators and progress toward market/technology readiness are weighted more.<sup>[1] [8] [4]</sup>

These frameworks ensure that valuation emphasizes both present technology strength and future commercial possibility, making them ideal for deep-tech startups yet to achieve revenue.<sup>[1] [8] [2] [4] [5]</sup>

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