



The Case for Neuroscience: relevant and accessible

Applied neuroscience translates the latest insights from brain research into practical solutions for real-world challenges. It bridges the gap between neuroscience research and its application to improve human performance and experiences. **PRISM Brain Mapping is that bridge.**

In today's ever-changing, complex, and dynamic world of work, humans are just as complex and ever evolving. Understanding the brain's adaptability and individual uniqueness is critical for unlocking potential in both education and the workplace. Several neuroscience principles and PRISM Brain Mapping illustrate why neuroscience is not only relevant but essential for addressing modern-day challenges.

The World of Work - A Changing Paradigm

Earlier generations of assessment tools were designed for an era of stable workplaces, predictable futures, and orderly career paths. Today's world demands more flexible and data-driven approaches that reflect the complexity of human behavior and the dynamic nature of work.

PRISM Brain Mapping offers neuroscience-driven data about both individuals and jobs through a comprehensive system—not a simplistic tool—delivering real-time, actionable insights for talent development, career planning, and workplace performance.

Key Neuroscience Concepts in Action

1. Neuroplasticity: Unlocking Potential through Growth

Neuroplasticity refers to the brain's ability to reorganize itself by forming new neural connections throughout life (Draganski et al., 2004). This principle fosters a **growth mindset**—the belief that abilities can be developed through effort and learning (Dweck, 2006). In a rapidly evolving job market, continuous upskilling and reskilling have become essential.

PRISM leverages neuroplasticity to help individuals recognize that they are not fixed in their abilities or circumstances. This understanding empowers them to embrace change and growth opportunities.

2. Job Fit: Matching Behavior, Not Just Skills

Research indicates that **behavioral fit** plays a more significant role in job performance than skills alone (Barrick & Mount, 1991). Skills are applied through behavior, and when individual behavioral preferences align with the behavioral demands of a role, the result is higher performance, motivation, and retention.

PRISM identifies both the **behavioral needs of roles** and the **behavioral preferences of individuals**, enabling precision matching for peak performance







3. Beyond IQ: Smart vs. Clever

Traditional measures like IQ only provide a narrow view of human potential. Behavior preferences are distinct from cognitive ability and are shaped by unique neural patterns (Pervin, 1994). People thrive when their **behavioral preferences** match the job's requirements, allowing them to work in alignment with their brain's natural wiring. This alignment fosters optimal performance and well-being.

4. Understanding and Navigating Change

Organizational change disrupts neural patterns, causing discomfort and fatigue as the brain works harder to adjust (Schneider & Hsieh, 2019). When employees understand the neuroscience of change, they develop greater resilience and self-awareness, which improves their ability to navigate transitions effectively.

PRISM raises this awareness, helping individuals manage change with empathy and adaptability.

5. Reducing Barriers and Bias

Neuroscience promotes inclusivity by recognizing that talent is not confined to education level, background, or circumstance (Clark & Snyder, 2005). **PRISM Brain Mapping** helps organizations implement fair talent management practices, supporting diversity and legally compliant processes at scale.

6. Innate Skills and Competencies

Behavior preferences reveal **natural soft skills and workplace competencies**—many of which go unrecognized due to low self-awareness. Research highlights the importance of self-awareness in performance and leadership development (Sutton et al., 2015). PRISM makes these natural strengths visible and actionable, enabling individuals to leverage them for lifelong success.

Data-Driven Precision

Quantifiable Behaviors

PRISM quantifies behavior preferences along a spectrum: from high and natural preference to moderate, low, and avoidance. It's the unique combination of these preferences across multiple behaviors that defines individual uniqueness. Both individual behavior preferences and the behavioral requirements of roles are measured with reliable data, offering insights at both the micro and macro levels.

Personalization at Scale

Al-driven tools leverage neuroscience data to deliver highly personalized experiences at scale, enabling precision in decision-making for individuals, educators, and employers.







Precision-Guided Career Planning

Reliable, data-driven insights eliminate guesswork and trial-and-error approaches in career planning. Students can make informed career choices with confidence, boosting retention and engagement in career-connected learning.

- Non-degree-educated individuals gain the confidence to pursue skilled jobs and overcome traditional barriers.
- Employers can make informed talent decisions, improving recruitment accuracy regardless
 of education or experience. PRISM enables skills-based hiring—no skills? No experience?
 No problem.

Simplifying Complexity

PRISM takes the complexity of neuroscience and human behavior and translates it into clear, actionable insights. It empowers individuals and organizations with accessible, science-based solutions to unlock human potential at scale.

Neuroscience is no longer an abstract science reserved for researchers. With **PRISM Brain Mapping**, it becomes an indispensable tool for education, career planning, and workforce development.

References

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