Numerous studies have shown relations between Big Five personality variables and achievement, both in workforce and academic contexts.

**Openness**

**Workforce Findings**

Openness has been connected to creativity in the workplace. There may be an unknown connection between creativity and job performance. For instance, the creative individual may unintentionally improve productivity through unique and innovative methods.

Openness to experience has also been positively related to successful training activities. The open individual’s optimistic attitude toward and enjoyment of learning may positively impact the outcome of the training.

**Academic Findings**

Openness has been shown to have a positive correlation with standardized measures of knowledge and achievement and is modestly correlated with cognitive ability. Of the Big Five, it has the highest correlations with the SAT® verbal score (although, interestingly, not with math scores). Openness has been positively associated with final grades, even when controlling for intelligence. Openness also may facilitate the use of efficient learning strategies which, in turn, affects academic success.

The correlation between Openness and academic achievement is not always found, however. The creative and imaginative nature of open individuals may sometimes be a disadvantage in academic settings, particularly when individuals are required to reproduce curricular content rather than produce novel response or creative problem solving.

**Conscientiousness**

**Workforce Findings**

Of the five main personality factors, Conscientiousness has been shown to be the most consistent, significant predictor of workplace performance. For example, meta-analyses on the prediction of job performance from personality dimensions have demonstrated that broad measures of Conscientiousness predict overall job performance, even controlling for cognitive ability.

In addition to overall job performance, broad measures of Conscientiousness have been shown to predict a number of other valued workplace behaviors, such as organizational citizenship and leadership as well as undesirable behaviors such as procrastination, to name a few.

Conscientiousness is the best noncognitive predictor of performance across a wide variety of job types and work outcomes.

**Academic Findings**

Conscientiousness has consistently been found to predict academic achievement from preschool through high school, the postsecondary level and adulthood. Conscientiousness measured in school children was found to predict academic achievement at age 20 and eventual academic attainment at age 30. This factor predicts college grades even after controlling for high school grades and SAT scores, suggesting it may compensate for lower cognitive ability.

High Conscientiousness may be associated with personal attributes necessary for learning and academic
pursuits such as being organized, dependable and efficient, striving for success and exercising self-control.\textsuperscript{32} For example, in one study this factor was found to predict early completion of independent credit assignments, and signing up early to participate.\textsuperscript{33} Conscientiousness might even affect achievement through its effect on the sleep schedule — high Conscientious individuals rise and retire earlier.\textsuperscript{34} The effects of Conscientiousness on academic performance may be mediated by motivational processes such as expenditure of effort, persistence, perceived intellectual ability,\textsuperscript{35} effort regulation\textsuperscript{36} and attendance.\textsuperscript{37} There is some evidence that particular facets of Conscientiousness — achievement-striving, self-discipline, diligence, achievement via independence — may be particularly strong predictors of academic achievement, perhaps stronger than the broad Conscientiousness factor itself.\textsuperscript{38, 39, 40}

**Neuroticism**

**Workforce Findings**

Those who exhibit neurotic behaviors tend to be less happy, which influences their ability to perform well in tasks.\textsuperscript{41} Those who are neurotic tend to have low job satisfaction\textsuperscript{42} and are more likely to remember and fixate on negative experiences within the workplace.\textsuperscript{43, 44} These characteristics impact both feelings about a job and job performance.

The insecurity associated with Neuroticism can lead to quitting\textsuperscript{45} and dissatisfaction with one’s job.\textsuperscript{46} This may be due to uncertainty about job performance\textsuperscript{47} or one’s ability to complete tasks.\textsuperscript{48} Neuroticism is helpful, however, in jobs that require the formation of creative and novel ideas.\textsuperscript{49}

**Academic Findings**

In early studies, Neuroticism was shown to predict poorer academic performance among school-aged children. For example, a study of 3,000 13-year-olds showed that emotional stability was related to academic success.\textsuperscript{50} A longitudinal study of 205 participants who were assessed around ages 10, 20 and 30 demonstrated that negative emotionality at age 20 was correlated with poor adaptation concurrently and 10 years previously.\textsuperscript{51} Analysis suggests a correlation between Neuroticism and academic achievement, particularly for the anxiety and impulsiveness facets.\textsuperscript{52, 53} This relationship may be due to Neuroticism's correlation with study attitudes.\textsuperscript{54} However, some studies of both school children\textsuperscript{55} and university students\textsuperscript{56} have failed to find any significant correlations between Neuroticism and academic attainment. Such inconsistencies may reflect the role of moderating factors, such as self-control and motivation, in compensating for negative emotionality.

**Extraversion**

**Workforce Findings**

Extraverts tend to search for social relationships with co-workers, leading to increased relationships across their organization and a swift socialization and integration within the organization.\textsuperscript{57, 58, 59} This process of assimilation is associated with positive performance\textsuperscript{60} and a decreased likelihood of quitting.\textsuperscript{61, 62, 63} Extraversion has been positively correlated with occupations that require social interactions, training proficiency\textsuperscript{64} and leadership abilities.\textsuperscript{65} Extraversion has also been positively correlated with job satisfaction\textsuperscript{66} and leadership abilities.\textsuperscript{67} Extraverts may experience high levels of satisfaction in the workplace due to their ability to experience optimal levels of stimulation in the social environment;\textsuperscript{68} introverts often report less satisfaction for these very reasons.\textsuperscript{69}

**Academic Findings**

In general, there does not seem to be a relationship between Extraversion and college performance,\textsuperscript{70, 71} although some studies have found evidence for a small, negative correlation.\textsuperscript{72} Age may moderate the effect of Extraversion on academic success. Before the age of 11–12, extraverted children outperform introverted children;\textsuperscript{73} among adolescents and adults some research has shown that introverts show higher achievement than extraverts.\textsuperscript{74} This change in the direction of the correlation has been attributed to the move from the sociable, less competitive atmosphere of primary school to the rather formal atmospheres of secondary school and higher education, in which introverted behaviors such as avoidance of intensive socializing become advantageous.
Extraverts and introverts also differ in parameters of information-processing such as speech production, attention and reflective problem-solving, with performance varying along meaningful dimensions. For example, extraverts have been shown to be better at oral contributions to seminars but poorer at essay-writing than introverts.

Agreeableness

Workforce Findings

The ability to adapt enables agreeable individuals to establish and maintain healthy and rewarding relationships with their co-workers, colleagues and place of business. The qualities associated with agreeableness — kindness, likeability, thoughtfulness — tend to lead to these successful relationships with co-workers and encourage the agreeable individual to remain within the organization. The worker’s positive opinion about the environment increases performance as well as motivation to stay at the job.

Agreeable people may often be high-performing individuals due to their willingness to adapt to and understand their environment. Agreeableness has been shown to predict performance in interpersonal-oriented jobs, as well as a significant (albeit weak) predictor of helping others.

Unlike some personality constructs such as Conscientiousness, Agreeableness is not associated with workforce success for all occupations, as certain occupations require a certain degree of disagreeableness for success. Likewise, Agreeableness has been negatively correlated with leadership abilities, while it is positively correlated with working with a team.

Academic Findings

Although the temperamental precursors of Agreeableness, such as prosocial orientation, relate to better social adjustment, relations between this factor and academic attainment are consistently nonsignificant. However, antisocial personality traits associated with low Agreeableness may have detrimental effects.

Other factors that impact academic achievement

In addition, several unclassified factors may be particularly relevant to educational outcomes.

Time Management

Workforce Findings: Some research has shown that time management behaviors have an impact on well-being at work. For example, one study found that car sales people who used short-range planning tended to have higher job performance scores. In terms of time management training, some studies have shown a positive relationship with work performance, while others have not.

Academic Findings: Poor time management, such as not allocating time properly for work assignments, cramming for exams and failing to meet deadlines, has been found to be a source of stress and poor academic performance. Several studies report correlations between time management and academic achievement in college students.

Additionally, time management behavior has been linked to perceived control of time and perceived control of time has been associated with well-being in the workplace. Numerous researchers have found that perceived control of time significantly predicts job satisfaction and well-being.

In terms of performance, however, only weak and zero correlations have been found.

Anxiety

Anxiety is a robust and well-established facet of Neuroticism. Perkins and Corr (2005) have postulated that the propensity to worry in the workplace might enhance workplace performance. After testing a sample of financial service managers, they learned this theory was partially true, with worrying positively correlating with managerial performance, but only for those managers with high cognitive abilities.

Test anxiety also plays a role in workforce contexts through the prevalence of testing batteries in selection.
To the extent that hiring decisions are made based on test results, test anxiety may influence these results.

**Academic Findings:** Test anxiety is the negative affect, worry, physiological arousal and behavioral responses that accompany concern about failure or lack of competence on an exam or similar evaluative situations.\(^\text{126}\) Research has found that test anxiety has a detrimental effect on academic performance.\(^\text{127, 128}\) Analyses have shown a consistent and moderate negative relationship between test anxiety and academic performance.\(^\text{129}\) Recent studies with community- and four-year college students have shown similar results.\(^\text{130, 131}\) Almost a third of American primary and secondary students may be affected by test anxiety.\(^\text{132}\)

**Self-Efficacy**

**Workforce Findings:** Research in the area of self-efficacy and workplace success has focused in two areas: job satisfaction and job performance. In terms of job satisfaction, self-efficacy has been theorized to be an important component of satisfaction merely due to its practical association with success on the job.\(^\text{134}\) Those employees with high self-efficacy are more likely to effectively deal with the complexities of the workplace and persist through these complications and difficulties.\(^\text{135}\) Because of their persistence, those with high self-efficacy are more likely to value their job and feel job satisfaction.\(^\text{136}\)

**Academic Findings:** Self-efficacy was shown to be a moderate correlate of Neuroticism and Extroversion.\(^\text{137}\) Many studies have examined the relation between self-efficacy and academic outcomes. Students with a high sense of academic self-efficacy were found to demonstrate greater persistence and effort in their academic learning.\(^\text{138}\) Students with low academic self-efficacy were more prone to becoming discouraged by challenging tasks. Besides persistence and effort, high self-efficacy may be related to the use of cognitive strategies when encountering difficult and demanding problems.

Less work has been conducted in the area of job performance. Researchers have suggested that task-specific self-efficacy is related to job performance.\(^\text{139, 140}\) A meta-analysis of the few studies in this area reported a positive correlation between generalized self-efficacy and job performance.\(^\text{141}\)

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**Footnotes**


37 Conard (2006).


47 Mkoji & Sikalieh (2012).


Meyer & Sikalim (2012).


Mikoji & Sikalim (2012).

Mikoji & Sikalim (2012).

Mikoji & Sikalim (2012).

Mikoji & Sikalim (2012).

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